

Service Manual



Colour Television

TX-W32R4DP

EURO-4 Chassis

SPECIFICATIONS

Power Source:	220-240V a.c., 50Hz		Dolby Surround Out (Rear)	5 x Dolby Surround Out RCA	
Power Consumption:	140W		External Speaker connections	2 x Rear 1 x Centre	
Aerial Impedance:	75Ω unbalanced, Coaxial Type		High Voltage:	30,5kV ±1kV	
Stand-by Power Consumption:	1,8W		Picture Tube:	W76LFC185X06	76cm
Receiving System:	PAL I, PAL 525/60 M.NTSC NTSC (AV only)		Audio Output: (Music Power)	Front Left/Right External Centre 3D Sub-Woofer Surround 8Ω Impedance	2 x 20W 20W 26W 2 x 15W
Receiving Channels:	UHF E21-E69		Headphones:	8Ω Impedance 3,5 mm	
Intermediate Frequency:	Video 39,5MHz Audio 33,5MHz, 32,95MHz Colour 35,07MHz		Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries TS-400DP Video cabinet / Speaker pack	
Video/Audio Terminals:			Dimensions:		
AV1 IN	Video (21 pin) Audio (21 pin) RGB (21 pin)	1V p-p 75Ω 500mV rms 10kΩ	Height: Width: Depth:	555mm 862mm 553mm	
AV1 OUT	Video (21 pin) Audio (21 pin)	1V p-p 75Ω 500mV rms 1kΩ			
AV2 IN	Video (21 pin) Audio (21 pin) S-Video IN (21 pin)	1V p-p 75Ω 500mV rms 10kΩ Y: 1V p-p 75Ω C: 0.3V p-p 75Ω	Net weight:	50,5kg	
AV2 OUT	Video (21 pin) Audio (21 pin) Selectable Output (21 pin)	1V p-p 75Ω 500mV rms 1kΩ	Specifications are subject to change without notice. Weights and dimensions shown are approximate.		
AV3 IN	S-Video IN (4-pin) Audio(RCAx2) Video (RCAx1)	Y: 1V p-p 75Ω C: 0,3V p-p 75Ω 500mV rms10kΩ 1V p-p 75Ω	NOTE: This Service Manual should be used in conjunction with the EURO-4 Technical Guide.		
Panasonic CS (U.K.) Ltd					

Panasonic CS (U.K.) Ltd.
WILLOUGHBY ROAD,
BRACKNELL,
BERKS.,
RG12 8FT.

Panasonic

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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts that have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 31,5kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

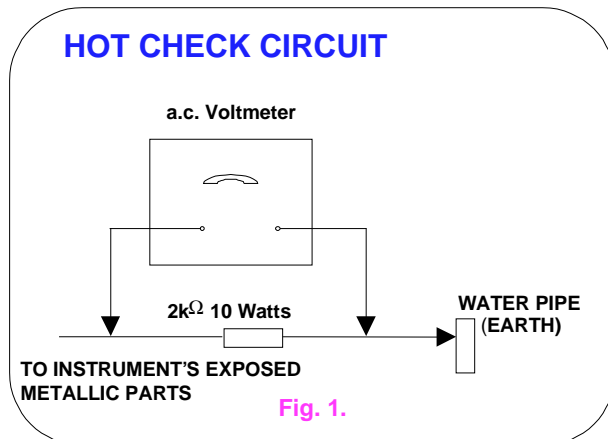
LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2k Ω 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.

4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and



the receiver should be repaired and rechecked before it is returned to the customer.

X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 31,5kV without causing X-Radiation.

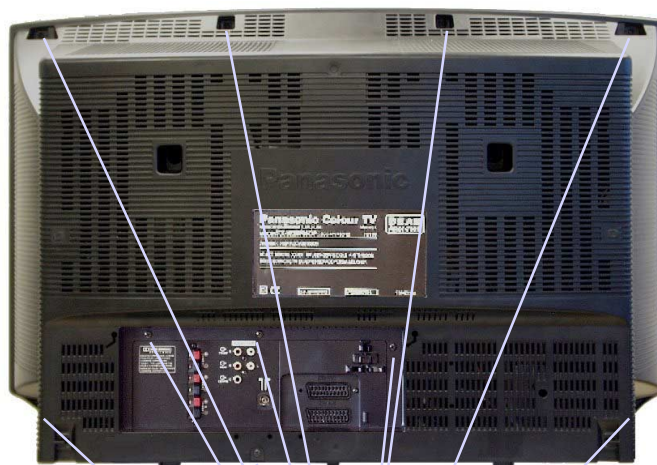
NOTE: It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate :- 30,5kV \pm 1kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

How to remove the rear cover

1. Remove the 10 screws as shown in **Fig.2.**



SCREWS

Fig.2.

LOCATION OF CONTROLS

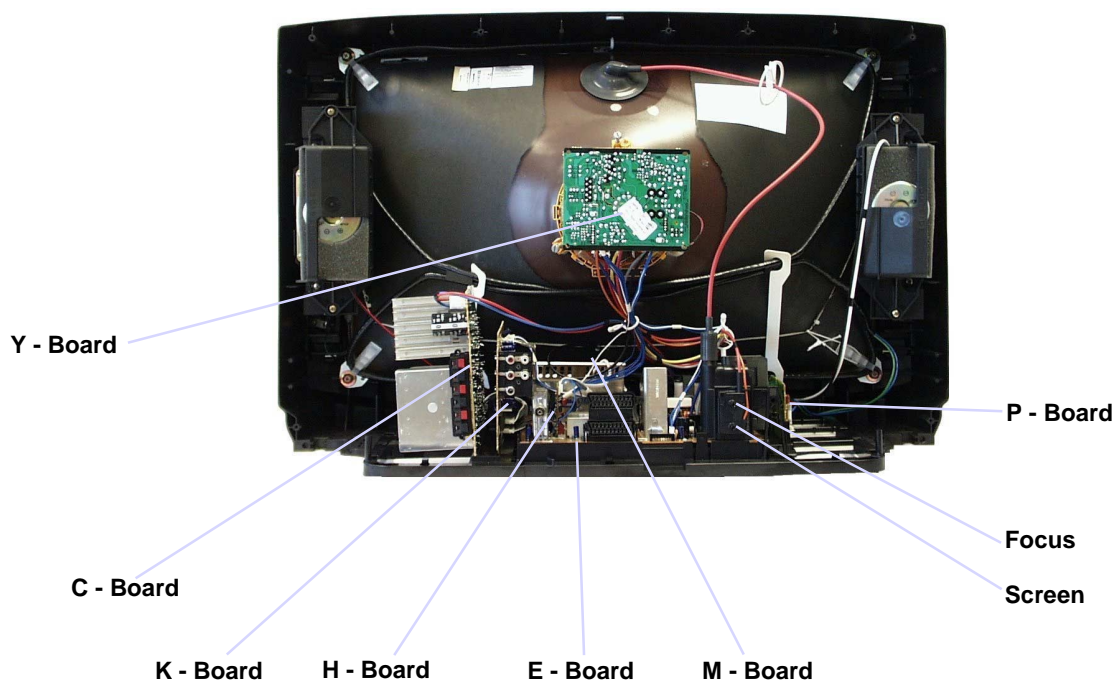


Fig.3.

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove the bead clumper from the mains lead and affix, using back cover screw, into top right-hand cabinet rib (A), shown in Fig.4.
2. Hold and lift the rear of the E-PCB chassis and gently pull the chassis toward you, as shown in Fig.4.
3. Release the respective wiring clips and rotate the chassis vertically through 90°, anti-clockwise.
4. Locate the base of the chassis frame into the hole (B), shown in Fig.6.
5. Clip the chassis frame onto the bead clumper, shown in Fig.5.
6. After servicing replace the bead clumper and ensure all wiring is returned to its original position before returning the receiver to the customer.

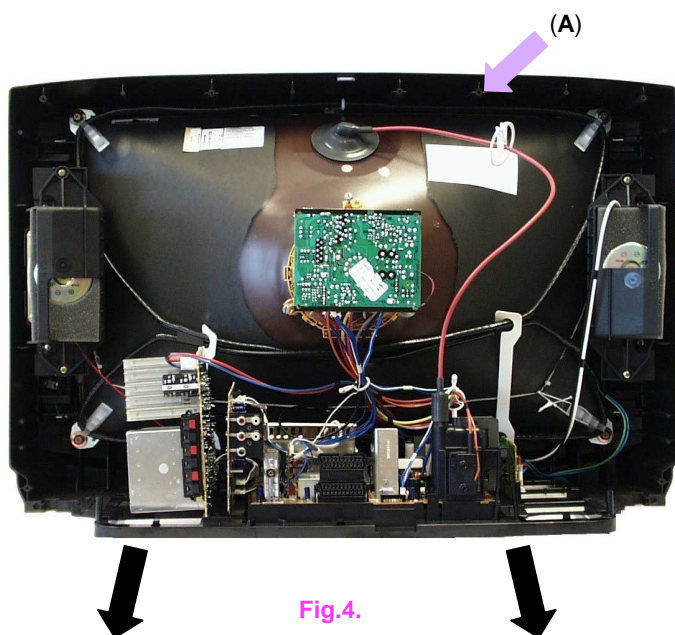


Fig.4.

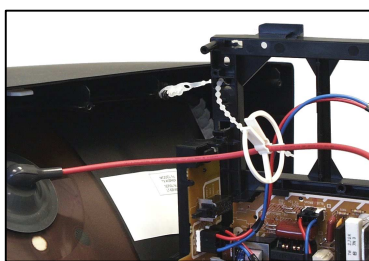


Fig.5.

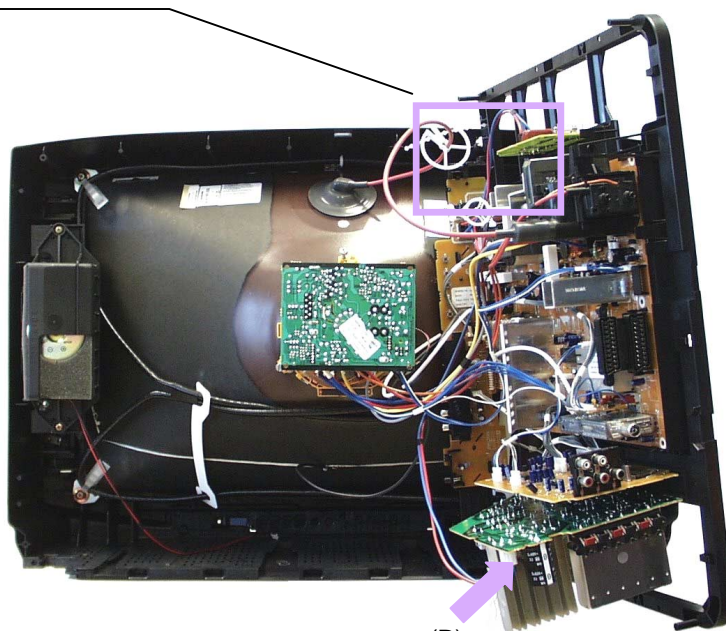



Fig.6.

ADJUSTMENT PROCEDURE

Item / Preparation	Adjustments
+B SET-UP 1. Receive a Greyscale signal. 2. Set the controls :- Brightness Minimum Contrast Minimum Volume Minimum	1. Set the +B voltage up as follows:- Adjust R811 so that B2 shows $148V \pm 1V$. 2. Confirm the following voltages. B9 5 \pm 0,25V B10 5 \pm 0,25V B5 12 \pm 0,5V B11 33 \pm 1,5V B4 16 \pm 1V B7 8 \pm 0,5V B12 26 \pm 1V B8 5,5 \pm 0,5V B3 41 \pm 1,5V B13 15 \pm 1V B1 200 \pm 10V B14 -15 \pm 1V
CUT OFF / Ug2 Test 1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cut off mode.	To adjust Cutoff connect an oscilloscope to the Blue cathode, adjust "cutoff" value using the "Yellow" and "Blue" buttons until the black level is $160V \pm 5V$ press " STR " to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."

FACTORY SETTINGS

To return customer settings to factory settings and clear owner ID of all information input by the customer, enter Self-Check mode. Press the down (**-/v**) button on the customer controls at the front of the TV set, at the same time pressing the **STATUS** button  on the remote control. To exit Self Check, switch off the TV set at the power button.

NOTE: Self Check should only be used when refurbishing the TV set and not during normal repair work.

VDP	O.K.	PCB	O.K.
TUN	O.K.	Cab	O.K.
E2	O.K.	Sum	Factory use only
MSP	O.K.		
DPL	O.K.		
OPTION 1	00		
OPTION 2	21		
OPTION 3	02		
OPTION 4	09		
OPTION 5	B1		
OPTION 6	A9		

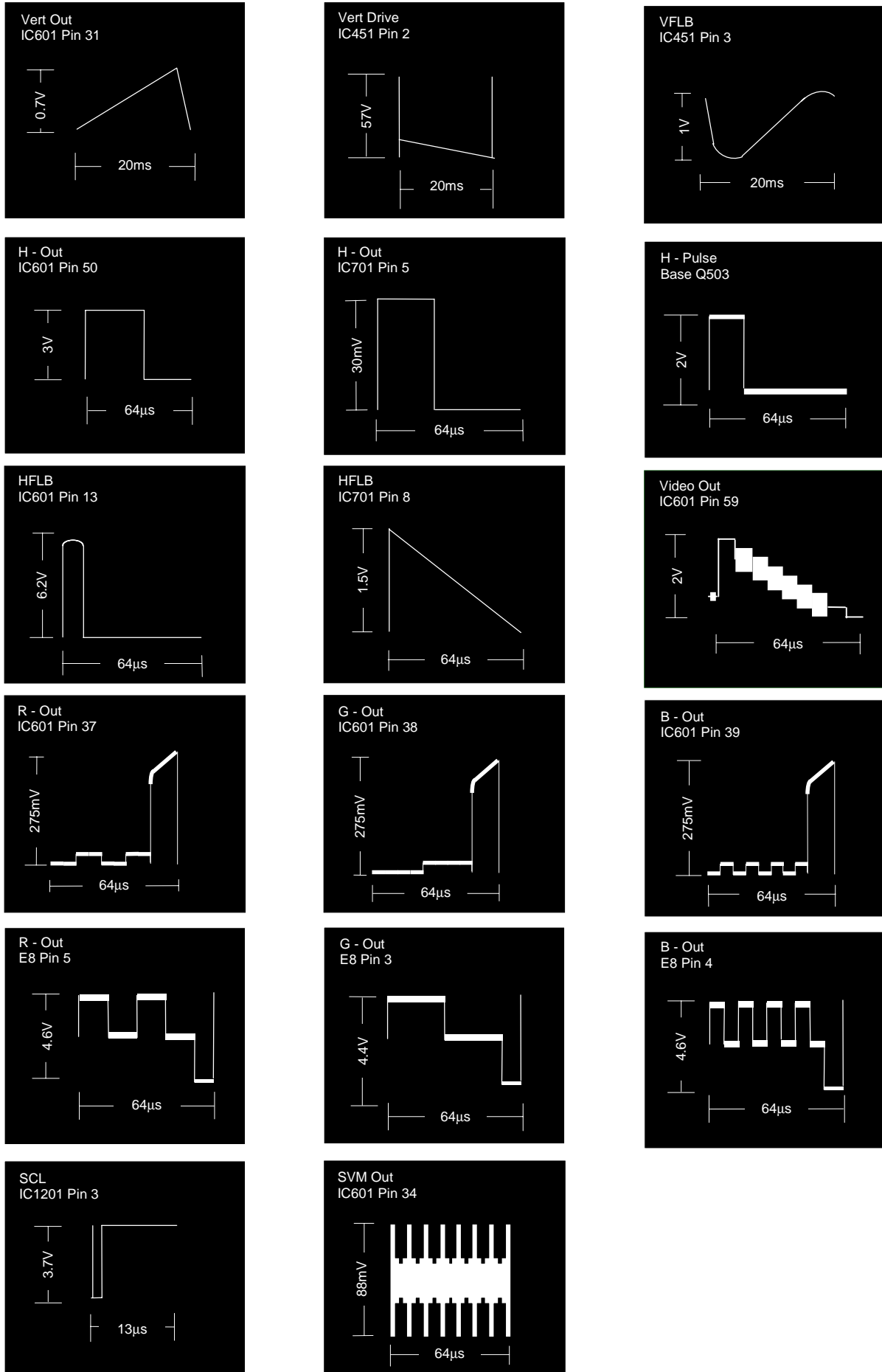
Self Check is also used to automatically check the bus lines and hexadecimal code of the TV set. If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.". For more in-depth TV diagnostics use the **LUCI** interface as listed below.

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

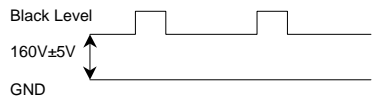
- LUCI** interface kit (Linked Utility Computer Interface)
 Part number: TZS6EZ002
 This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.
- VICI** (Visual Interactive Computer Information)
 These C.D.'s contain multimedia documentation providing quick access to service information.
 Part No. TZS7EZ006 & TZS7EZ005
 - Service Manuals
 - Instruction Books
 - Technical Information
- TASMIN** (Technically Advanced System for Multimedia Interactive Notes)
 As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

WAVEFORM PATTERN TABLE

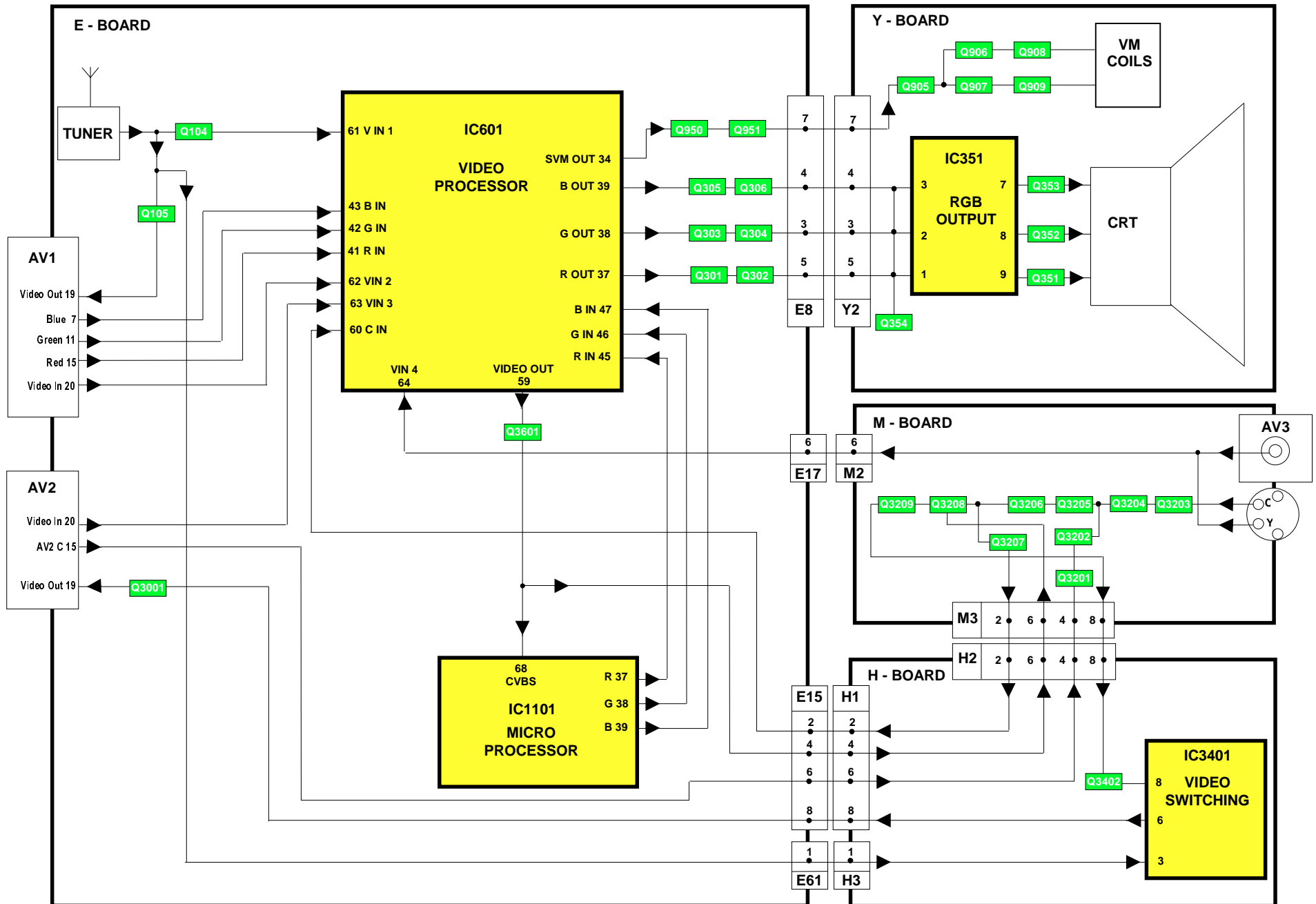


ALIGNMENT SETTINGS

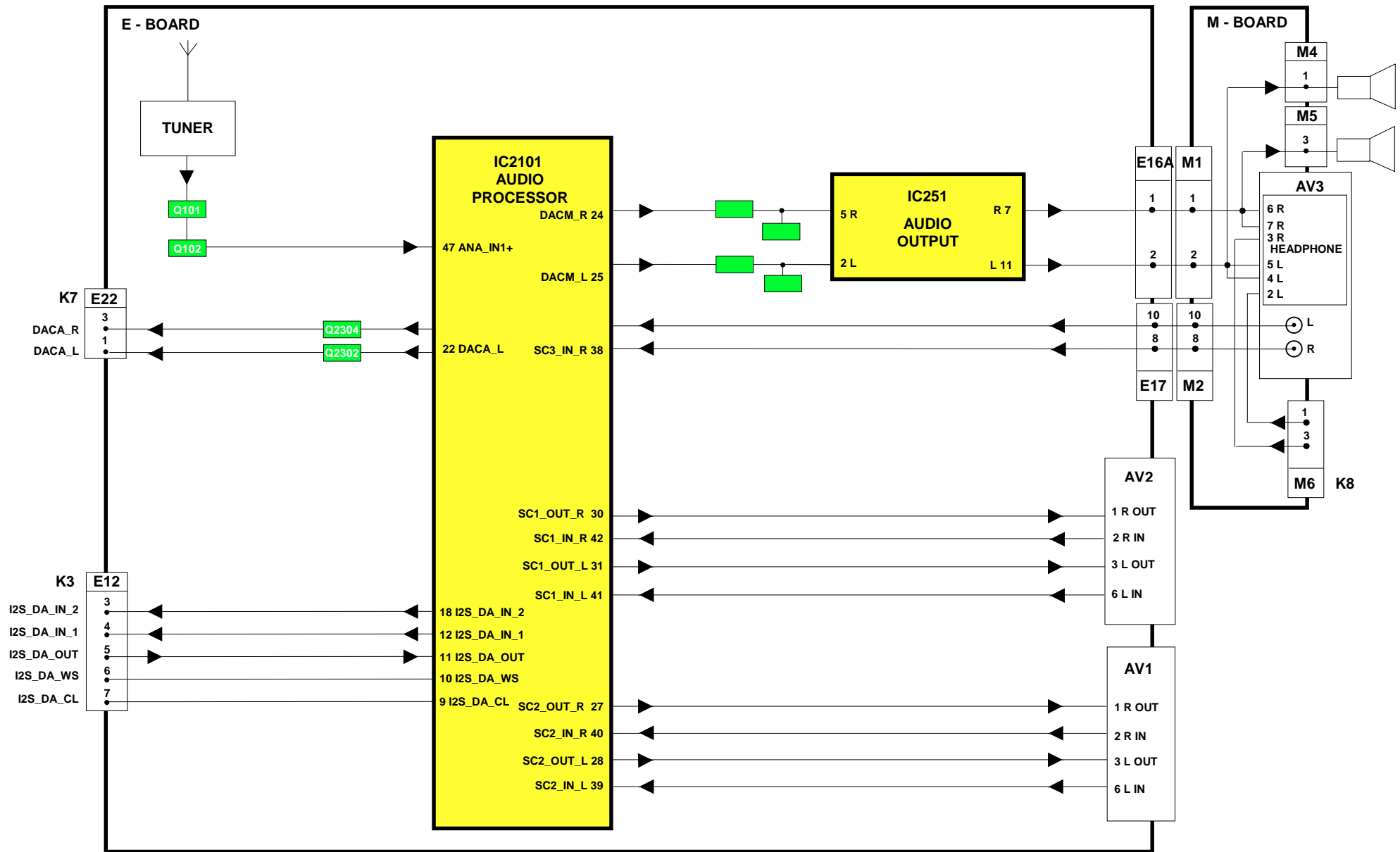
(The figures below are nominal and used for representative purposes only.)

Alignment Function		Settings / Special features
Horizontal Position	H-Pos 061	Optimum setting.
Vertical Position	V-Pos 005	Optimum setting.
Horizontal Amplitude	H-Amp 055	Optimum setting.
Vert. Amplitude	V-Amp 054	Optimum setting.
EW-amplitude	E/W-Amp1 -128	Optimum setting.
EW-amplitude	E/W-Amp2 006	Optimum setting.
Trapezium-comp	Trapez-1 047	Optimum setting.
Trapezium-comp	Trapez-2 -128	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	Optimum setting.
DVCO	DVCO -005	Receive a PAL Colour Bar Pattern. For DVCO alignment press " Blue " button, wait until the colours are changing slowly and press " STR ".
Cut-off DC	Cut-off 0171	<p>To adjust Cutoff connect an oscilloscope to the blue cathode, adjust "cutoff" value using the "Yellow" and "Blue" buttons until the black level is $160V \pm 5V$ press "STR" to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."</p> 
Ug2 Test	Ug2 055 O.K.	
Highlight Lowlight	High 0902 0777 0864 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 255	Optimum setting.

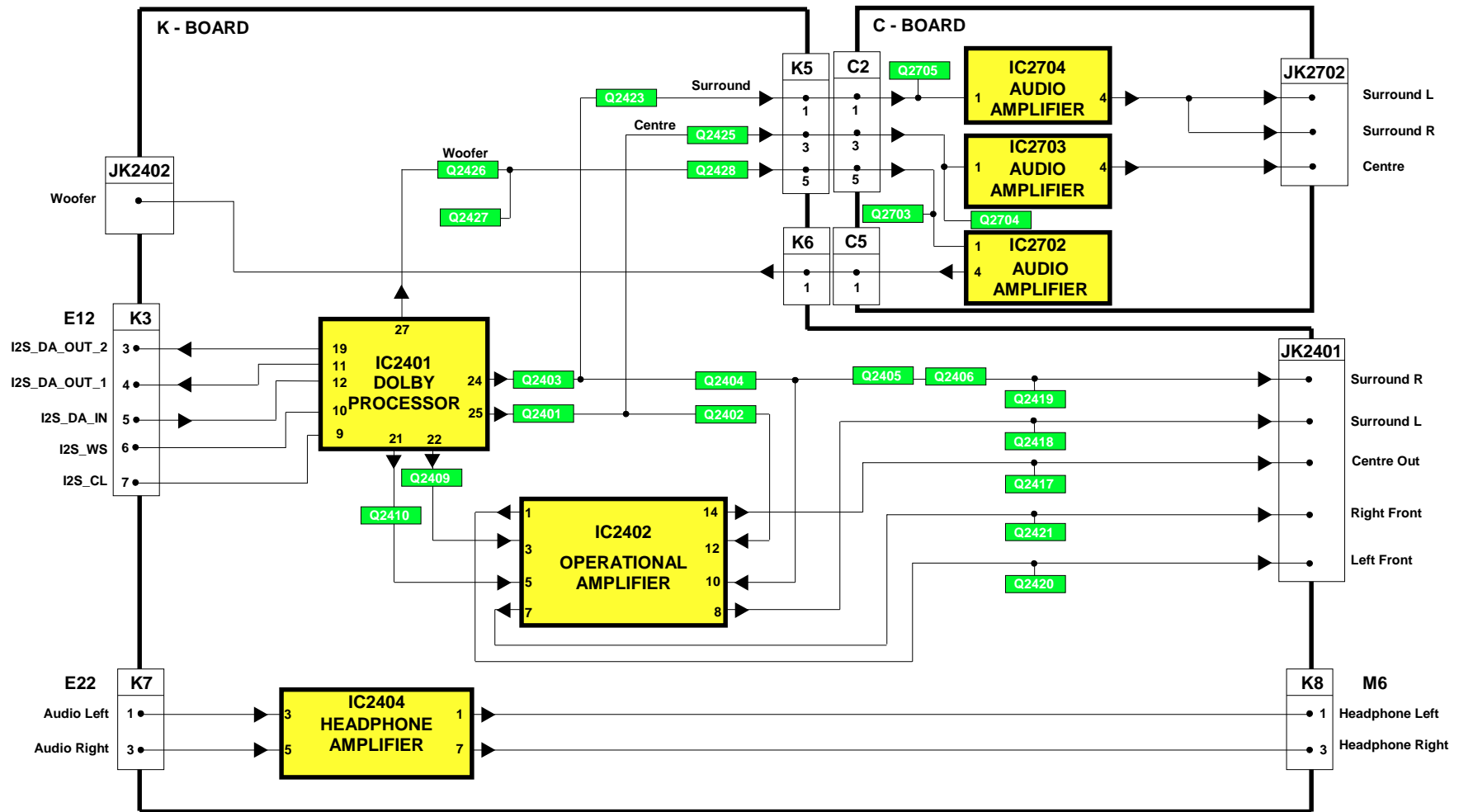
VIDEO BLOCK DIAGRAM



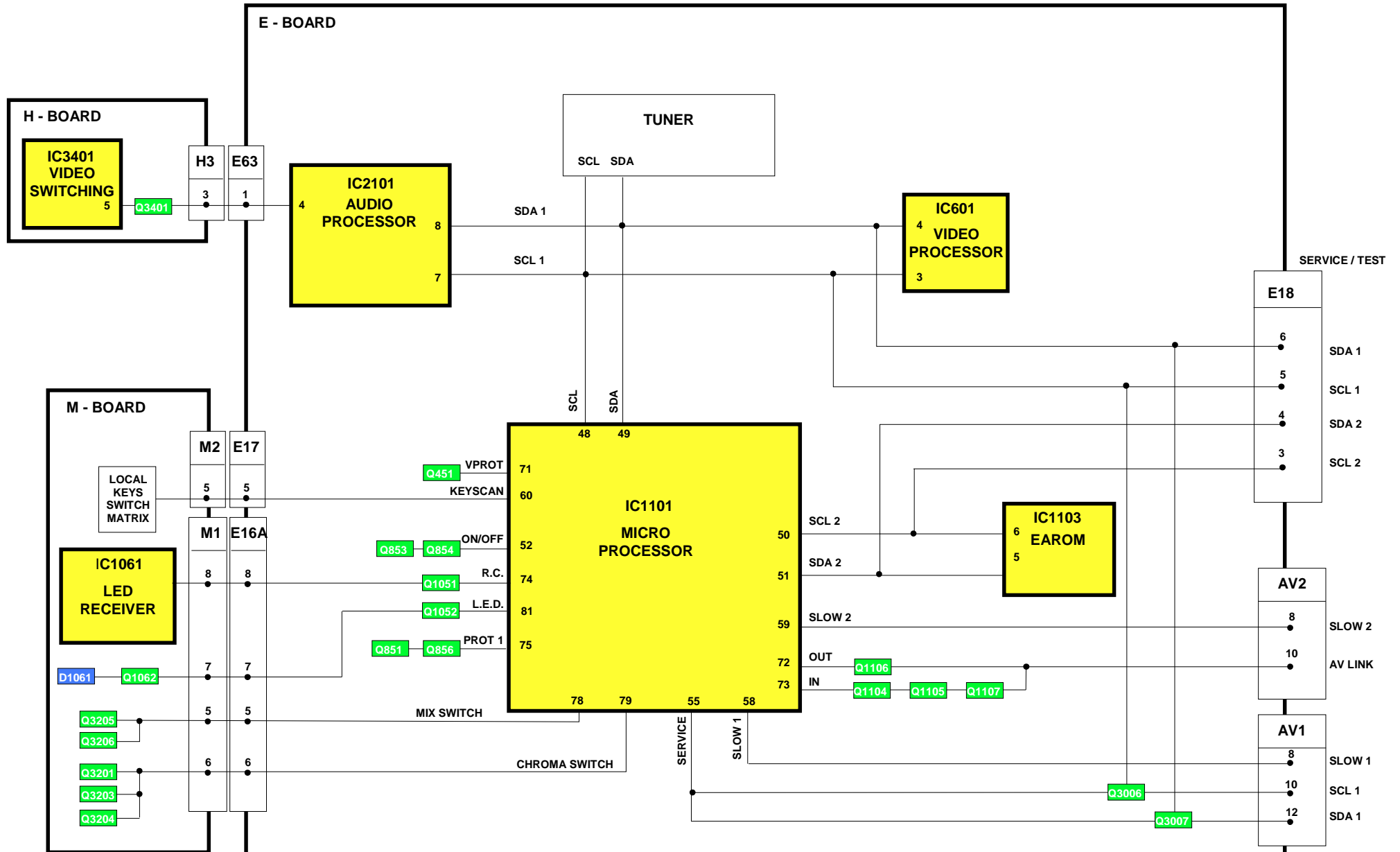
AUDIO BLOCK DIAGRAM



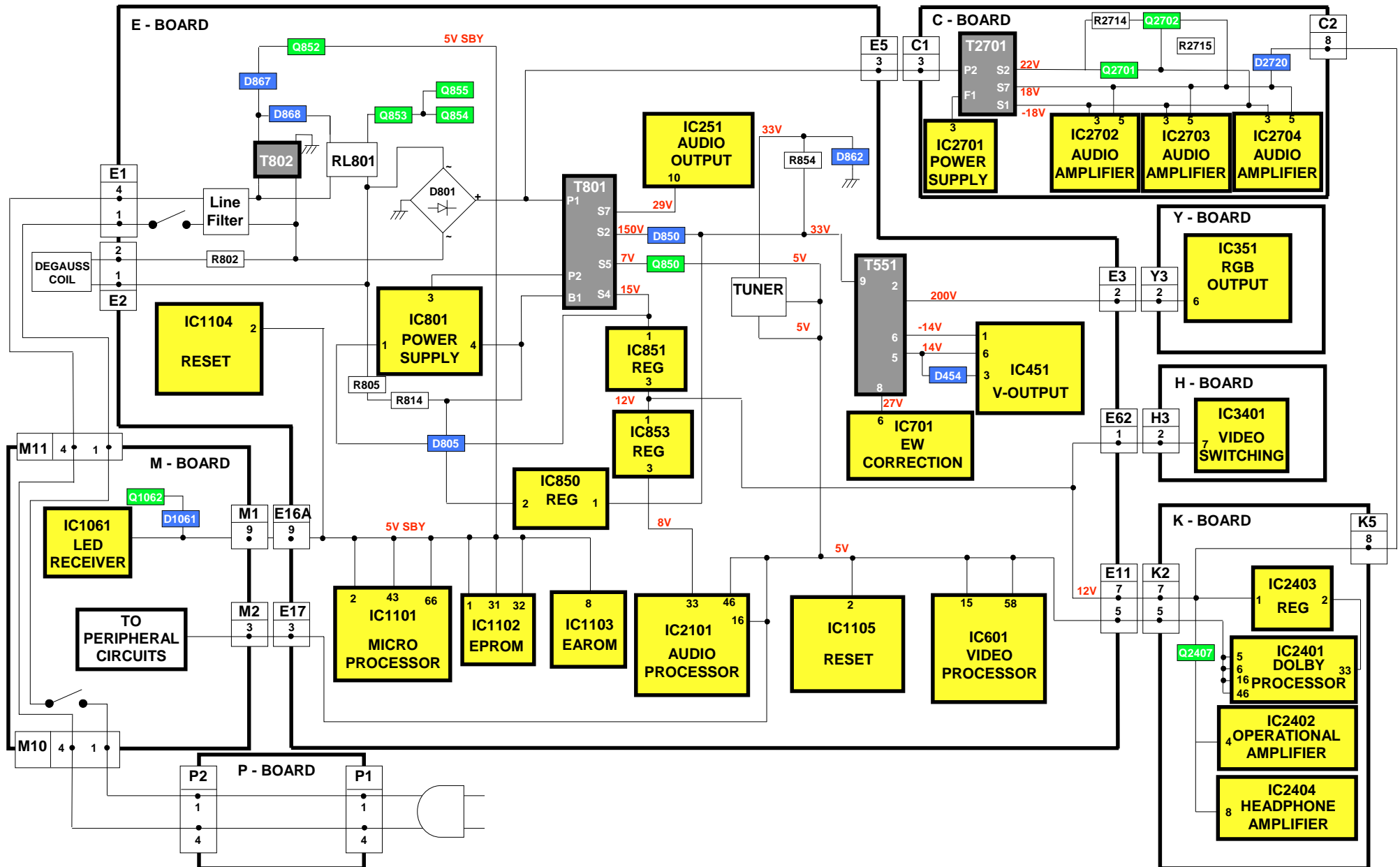
DOLBY BLOCK DIAGRAM



CONTROL BLOCK DIAGRAM



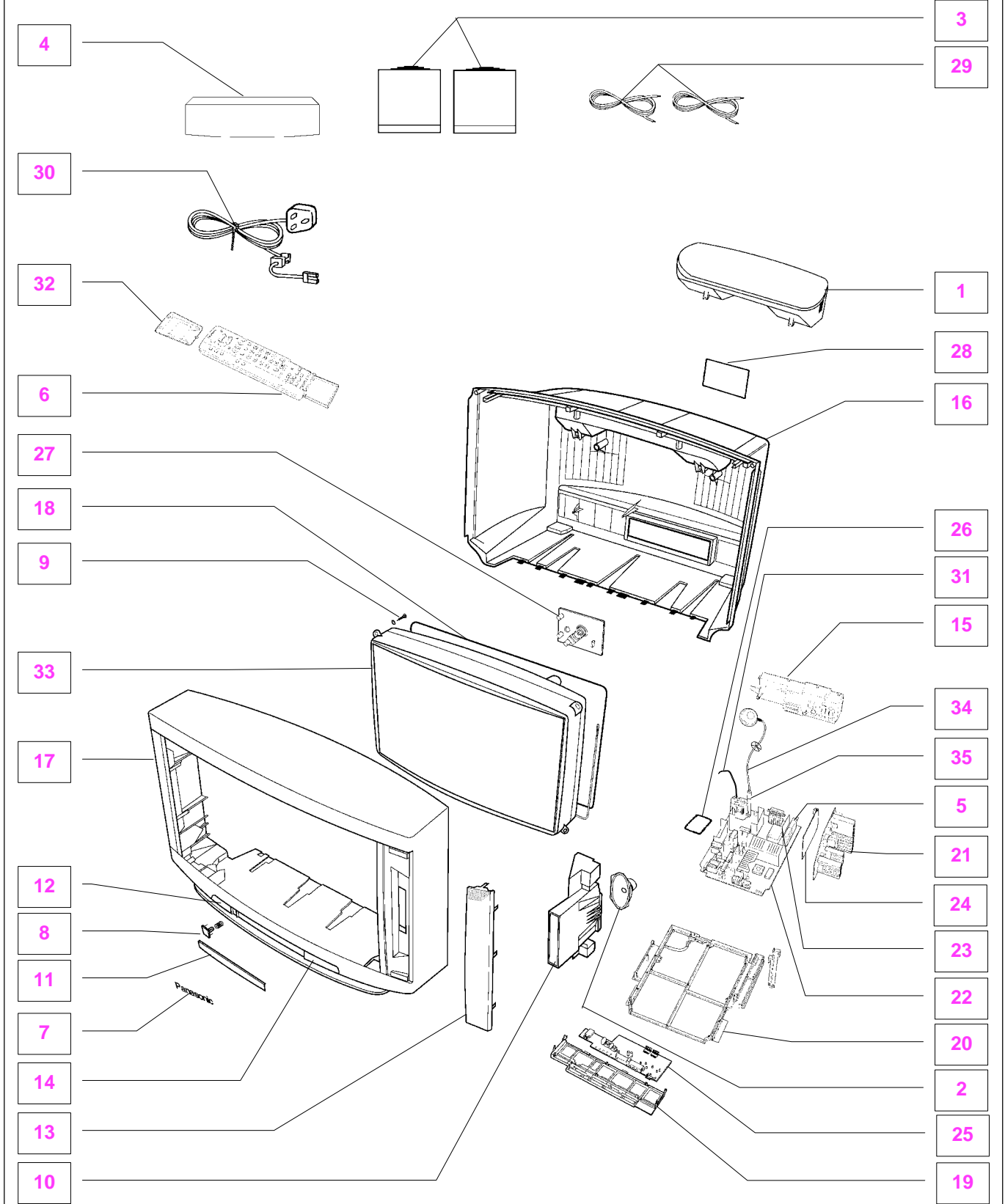
POWER SUPPLY BLOCK DIAGRAM



PARTS LOCATION


NOTE:

















The numbers on the exploded view below refer to the mechanical section of the Replacement Parts List.







REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by  mark have special characteristics important for safety.
 * When replacing any of these components, use only manufacturers specified parts.
 In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref	Parts Number	Description
MECHANICAL PARTS		
1	EAB10102B2	3D WOOFER SPEAKER
2	EAGG1218J2	SPEAKER
3	EAS8E002-A	REAR SPEAKER COMPLETE
4	EAS8E050-B	CENTRE SPEAKER
5	ENG27506G	TUNER 
6	EUR511210	REMOTE CONTROL
7	TBM8E1728	PANASONIC BADGE
8	TBX8E049	POWER BUTTON
9	THT1062	CRT FIXING SCREW
10	TKK8E026	SPEAKER REFLECTOR
11	TKP8E1141	DOOR LID
12	TKP8E1143	LEFT PANEL
13	TKP8E1148	SPEAKER NET
14	TKP8E1155	RIGHT PANEL (DOLBY)
15	TKP8E1249	REAR AV PANEL
16	TKU8E00290	BACK COVER 
17	TKY8E110	CABINET 
18	TLK8E05123	DEGAUSS COIL 
19	TMW8E023	CONTROL BRACKET
20	TMX8E031	CHASSIS FRAME
21	TNP8EC003AD	C P.C.B. 
22	TNP8EE009CB	E P.C.B. 
23	TNP8EH002AB	H P.C.B. 
24	TNP8EK005AC	K P.C.B. 
25	TNP8EM017AB	M P.C.B. 
26	TNP8EP015AA	P P.C.B. 
27	TNP8EY012AJ	Y P.C.B. 
28	TQF8E2761	MODEL LABEL 
29	TSX8E0015S	DOLBY SPEAKER WIRE 12M 
30	TSX8E0025	POWER CORD 
31	TXFJTF01BMTG	FOCUS LEAD ASSY
32	UR51IEC904A	BATTERY COVER (REMOTE)
33	W76LFC185X06	C.R.T.
34	ZTBZAD550A	ANODE CABLE
35	ZTFM05002A	F.B.T. 
MISCELLANEOUS COMPONENTS		
	31221212478	FIX CLIP
	832AG11D-ESL	IC SOCKET
	F9-4-220	RELAY
	PLCC-84-T	84 PIN IC SOCKET
	TBM8E1532-2	PRESET PANEL
	TBM8E1900	PRESET LABEL
	TEK6940	LID CATCH
	TLK8E05124	GEOMAGNETIC COIL 
	TMW8E017	LED HOLDER
	TPC8E4729	OUTER CARTON
	TPD8E621	TOP CUSHION
	TPD8E622	BOTTOM CUSHION
	TS-400DP	TV STAND
	UM-3DJ-2P	BATTERY PACK
PKN1	TMX8E022	DOLBY BRACKET

Cct Ref	Parts Number	Description
RL801	TSE1885-1	RELAY
R802	232266296706	THERMISTOR 
S351	0330550049	C.R.T. SOCKET
INSTRUCTION BOOKS		
	TQB8E2474-3	ENGLISH 
I.C.s		
IC251	LA4282	AUDIO OUTPUT
IC351	TDA6103Q-N3	R.G.B. OUTPUT
IC451	LA7845N	VERTICAL OUTPUT
IC601	VDP3120BPPB1	VIDEO PRCESSOR
IC701	TEA2031A	E/W CORRECTION
IC801	STRF6654LF51	POWER SUPPLY
IC850	SE140N	ERROR AMPLIFIER
IC851	L78M12MRB	12V REGULATOR
IC853	AN78L08TA	8V REGULATOR
IC1061	RPM-637CBRS1	LED RECEIVER
IC1101	SDA5450C48UK	MICRO PROCESSOR
IC1102	27C2001-L01	EPROM *
IC1103	X24CGL0201MA	EAROM *
IC1104	MN1381-R(TA)	RESET
IC1105	MN1381-T(TA)	RESET
IC1900	LA6515	EARTH CORRECTION
IC2101	MSP3410DPOB4	AUDIO PROCESSOR
IC2401	DPL3519APOA1	DOLBY PROCESSOR
IC2402	AN6554	OPERATIONAL AMPLIFIER
IC2403	AN78L08TA	8V REGULATOR
IC2404	NJM4556AD	HEADPHONE AMPLIFIER
IC2701	STR10006-S	POWER SUPPLY
IC2702	TDA2030AV	AUDIO AMPLIFIER
IC2703	TDA2030AV	AUDIO AMPLIFIER
IC2704	TDA2030AV	AUDIO AMPLIFIER
IC3401	TEA2114	VIDEO SWITCHING
FUSES		
F801	19181-3.15	FUSE 
F8011	EYF52BC	FUSE HOLDER
F8012	EYF52BC	FUSE HOLDER
R2711	TSF19632	FS LINK 
DIODES		
D251	MA2180BLFS	DIODE
D253	MA700TA5	DIODE
D254	MA700TA5	DIODE
D354	1SR124-4AT82	DIODE
D355	1SR124-4AT82	DIODE
D356	1SR124-4AT82	DIODE
D357	MA165TA5	DIODE
D358	MA165TA5	DIODE
D359	MA165TA5	DIODE
D360	MTZJT-7715A	DIODE
D361	MA165TA5	DIODE
D362	MA165TA5	DIODE
D363	MA165TA5	DIODE

Cct Ref	Parts Number	Description
D364	MA165TA5	DIODE
D453	MA165TA5	DIODE
D454	ERA15-02V3	DIODE
D456	MTZJT-775.6C	DIODE
D457	MA165TA5	DIODE
D501	MA165TA5	DIODE
D502	1SR124-4AT82	DIODE
D511	MA4047	DIODE
D552	RU3LFA1	DIODE
D553	1SR124-4AT82	DIODE
D554	1SR124-4AT82	DIODE
D556	MA165TA5	DIODE
D557	EU02	DIODE
D558	1SR124-4AT82	DIODE
D580	ERD07-15L7	DIODE
D601	DAN217T146	DIODE
D603	DAN217T146	DIODE
D605	DAN212KT146	DIODE
D606	MA165TA5	DIODE
D607	MA4051	DIODE
D609	1SR124-4AT82	DIODE
D615	STZ6.2NT146	DIODE
D616	STZ6.2NT146	DIODE
D701	MA165TA5	DIODE
D702	MTZJT-775.1C	DIODE
D704	MA29TA5	DIODE
D705	MTZJT-775.6C	DIODE
D801	RBV-608LF-B	DIODE
D803	1SR124-4AT82	DIODE
D804	1SR124-4AT82	DIODE
D805	TLP621GR-LF2	PHOTO COUPLER
D806	1SR124-4AT82	DIODE
D850	RU4BLF-L1	DIODE
D851	MTZJT776.2B	DIODE
D852	MA165TA5	DIODE
D853	MA2180BLFS	DIODE
D854	TVSRU2AMLFA5	DIODE
D855	FML22SLF610	DIODE
D856	RU4AMLF-M1	DIODE
D857	MTZJT-775.1C	DIODE
D858	MA165TA5	DIODE
D859	MA165TA5	DIODE
D861	MA165TA5	DIODE
D862	MTZJT-7736A	DIODE
D863	MA165TA5	DIODE
D865	MA165TA5	DIODE
D866	MA165TA5	DIODE
D867	EK06-V0	DIODE
D868	1N4150T-77	DIODE
D869	1N4150T-77	DIODE
D870	MA165TA5	DIODE
D871	1N4150T-77	DIODE
D873	MTZJT-775.6C	DIODE
D874	1SR124-4AT82	DIODE
D875	BZX79A75A26A	DIODE
D901	MA165TA5	DIODE
D902	MA165TA5	DIODE
D904	MA165TA5	DIODE
D905	MA165TA5	DIODE
D906	RLS72TE-11	DIODE
D1061	LN81RPHL	DIODE
D1101	MA165TA5	DIODE
D1102	MA165TA5	DIODE
D1104	MA165TA5	DIODE
D1105	MA165TA5	DIODE
D2101	MA723TA5	DIODE

Cct Ref	Parts Number	Description
D2102	MA723TA5	DIODE
D2103	MA723TA5	DIODE
D2104	MA723TA5	DIODE
D2105	MTZJT-778.2C	DIODE
D2401	MA165TA5	DIODE
D2402	MA165TA5	DIODE
D2403	MTZJT-7712C	DIODE
D2404	MTZJT-7712C	DIODE
D2405	MTZJT-7712C	DIODE
D2406	MTZJT-7712C	DIODE
D2409	MA165TA5	DIODE
D2705	EG01CV0	DIODE
D2706	1SR124-4AT82	DIODE
D2707	TVSEH1LF-F7	DIODE
D2708	MA4075	DIODE
D2709	1SR124-4AT82	DIODE
D2710	1SR124-4AT82	DIODE
D2711	RU4AMLF-M1	DIODE
D2712	MA165TA5	DIODE
D2713	MA165TA5	DIODE
D2714	MA165TA5	DIODE
D2715	MA165TA5	DIODE
D2716	MA165TA5	DIODE
D2717	MA165TA5	DIODE
D2718	MTZJT-779.1C	DIODE
D2719	MA165TA5	DIODE
D2720	1SR124-4AT82	DIODE
D3201	MTZJT-778.2C	DIODE
D3202	MTZJT-778.2C	DIODE
TRANSISTORS		
Q101	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q105	BC847B	TRANSISTOR
Q251	2SD1328STX	TRANSISTOR
Q252	2SD1328STX	TRANSISTOR
Q253	BC847B	TRANSISTOR
Q254	BC847B	TRANSISTOR
Q301	BC847B	TRANSISTOR
Q302	FMY4T148	TRANSISTOR
Q303	BC847B	TRANSISTOR
Q304	FMY4T148	TRANSISTOR
Q305	BC847B	TRANSISTOR
Q306	FMY4T148	TRANSISTOR
Q351	2SA1767	TRANSISTOR
Q352	2SA1767	TRANSISTOR
Q353	2SA1767	TRANSISTOR
Q354	BC857B	TRANSISTOR
Q451	BC857B	TRANSISTOR
Q503	2SD2398-M2	TRANSISTOR
Q551	2SD1577LB	TRANSISTOR
Q552	2SC1473-RN	TRANSISTOR
Q701	BC857B	TRANSISTOR
Q850	2SD1273PLB	TRANSISTOR
Q851	BC857B	TRANSISTOR
Q852	2SC1383-S	TRANSISTOR
Q853	BC847B	TRANSISTOR
Q854	BC847B	TRANSISTOR
Q855	BC847B	TRANSISTOR
Q856	BC847B	TRANSISTOR
Q857	2SA1018QTA	TRANSISTOR
Q905	BC847B	TRANSISTOR
Q906	BC847B	TRANSISTOR
Q907	BC857B	TRANSISTOR
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR

Cct Ref	Parts Number	Description
Q950	BC847B	TRANSISTOR
Q951	FMY4T148	TRANSISTOR
Q1051	BC847B	TRANSISTOR
Q1062	BC847B	TRANSISTOR
Q1101	BC847B	TRANSISTOR
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q2101	BC857B	TRANSISTOR
Q2102	BC857B	TRANSISTOR
Q2103	BC857B	TRANSISTOR
Q2302	BC857B	TRANSISTOR
Q2304	BC857B	TRANSISTOR
Q2401	BC857B	TRANSISTOR
Q2402	BC857B	TRANSISTOR
Q2403	BC857B	TRANSISTOR
Q2404	BC857B	TRANSISTOR
Q2405	BC847B	TRANSISTOR
Q2406	BC847B	TRANSISTOR
Q2407	BC847B	TRANSISTOR
Q2409	BC857B	TRANSISTOR
Q2410	BC857B	TRANSISTOR
Q2416	BC857B	TRANSISTOR
Q2417	BC847B	TRANSISTOR
Q2418	BC847B	TRANSISTOR
Q2419	BC847B	TRANSISTOR
Q2420	BC847B	TRANSISTOR
Q2421	BC847B	TRANSISTOR
Q2423	BC857B	TRANSISTOR
Q2425	BC857B	TRANSISTOR
Q2426	BC857B	TRANSISTOR
Q2427	BC847B	TRANSISTOR
Q2428	BC857B	TRANSISTOR
Q2429	BC857B	TRANSISTOR
Q2430	BC847B	TRANSISTOR
Q2431	BC847B	TRANSISTOR
Q2701	BC557B/126	TRANSISTOR
Q2702	2SA684R	TRANSISTOR
Q2703	BC847B	TRANSISTOR
Q2704	BC847B	TRANSISTOR
Q2705	BC847B	TRANSISTOR
Q2706	BC857B	TRANSISTOR
Q3001	BC847B	TRANSISTOR
Q3006	BC847B	TRANSISTOR
Q3007	BC847B	TRANSISTOR
Q3201	BC847B	TRANSISTOR
Q3202	BC847B	TRANSISTOR
Q3203	BC857B	TRANSISTOR
Q3204	BC857B	TRANSISTOR
Q3205	BC847B	TRANSISTOR
Q3206	BC847B	TRANSISTOR
Q3207	BC847B	TRANSISTOR
Q3208	BC847B	TRANSISTOR
Q3209	BC847B	TRANSISTOR
Q3401	BC847B	TRANSISTOR
Q3402	BC847B	TRANSISTOR
Q3601	BC847B	TRANSISTOR
TRANSFORMERS		
T501	ETH19Y173AY	TRANSFORMER
T801	ETS42AE226AD	TRANSFORMER
T802	ETP35KAN619U	TRANSFORMER
T2701	ETS35AA3Y7AD	TRANSFORMER
COILS		
L104	EXCELSA35T	COIL

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Cct Ref	Parts Number	Description
L106	TLTACT100K	COIL
L107	TLTACT6R8K	COIL
L301	TLTACT4R7K	COIL
L302	TLTACT4R7K	COIL
L451	EXCELSA35T	COIL
L501	EXCELSA35T	COIL
L580	ELC08D682E	COIL
L581	ELH5L6117	COIL
L582	ELC18B102E	COIL
L583	ELC18B101L	COIL
L601	TLTACT4R7K	COIL
L602	TLTACT4R7K	COIL
L603	TLTACT4R7K	COIL
L604	TLTACT4R7K	COIL
L606	TLTACT4R7K	COIL
L607	ELJFC2R2KF	COIL
L701	ELC10D682E	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35T	COIL
L852	ELEIE470KA	COIL
L855	EXCELSA35T	COIL
L856	EXCELSA39V	COIL
L901	EXCELSA24T	COIL
L902	EXCELSA24T	COIL
L1061	TLT331K991R	COIL
L1103	TLTACT100K	COIL
L1104	EXCELSA35T	COIL
L1105	ELJFC2R2KF	COIL
L1900	EXCELD25V	COIL
L2101	TLTACT100K	COIL
L2103	EXCELSA35T	COIL
L2104	TLTACT4R7K	COIL
L2401	TLTACT3R3K	COIL
L2402	TLTACT3R3K	COIL
L2403	TLTACT101K	PEAKING COIL
L2404	ELC08D3R3E	COIL
L2405	ELC08D3R3E	COIL
L2703	EXCELSA35T	COIL
L2704	EXCELSA35T	COIL
L2705	EXCELSA35T	COIL
L2706	EXCELSA35T	COIL
L2707	EXCELSA35T	COIL
L2708	EXCELSA35T	COIL
L2709	EXCELSA35T	COIL
L2710	ELC08D3R3E	COIL
L2711	ELC08D3R3E	COIL
L2714	ELC08D3R3E	COIL
L2715	ELC08D3R3E	COIL
L3001	ELEMV1R5MA	COIL
L3002	ELEMV1R5MA	COIL
L3003	ELEMV1R5MA	COIL
L3004	ELEMV1R5MA	COIL
L3005	ELEBR2R2KA	COIL
L3006	ELEBR2R2KA	COIL
L3007	TLTACT2R2K	COIL
L3201	ELEBR6R8KA	COIL
L3202	ELEBR6R8KA	COIL
L3203	TLT390K991R	COIL
L3204	TLT331K991R	COIL
L3401	ELESN2R2KA	COIL
L3402	ELESN2R2KA	COIL
FILTERS		
L802	ELF18N012A	LINE FILTER
L804	ELF18N012A	LINE FILTER
CRYSTALS		
X601	4730007267	CRYSTAL

Cct Ref	Parts Number	Description
X1101	TSSA121	CRYSTAL
X2101	4730007158	CRYSTAL
X2401	4730007158	CRYSTAL
RESISTORS		
	ERC12GK825	SOLID 0.5W 10% 8M2 Ω
C101	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE10	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA45	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA47	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA48	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA49	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA5	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA52	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA54	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA55	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA57	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA58	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA6	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA60	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSM7	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA9	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE18	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE22	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE26	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE33	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE35	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE4	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE42	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSM14	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA7	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA44	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA8	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA19	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA28	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA27	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA26	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA25	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA24	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA23	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA22	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA21	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA2	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA13	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA18	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA17	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA16	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA15	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA14	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA10	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA1	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA20	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA39	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA36	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA38	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA4	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA40	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA11	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA37	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA1	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA43	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA46	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA30	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω

Cct Ref	Parts Number	Description
JA35	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA5	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA50	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA2	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA51	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA33	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA31	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA61	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA8	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA29	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA32	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA21	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA56	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA23	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA34	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA59	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA53	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
R101	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
R102	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R103	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2 Ω
R104	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3 Ω
R105	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100 Ω
R106	ERJ6GEYJ681	S.M.CARB 0.1W 5% 680 Ω
R107	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1K Ω
R111	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
R112	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100 Ω
R113	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22K Ω
R114	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330 Ω
R115	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330 Ω
R116	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6 Ω
R117	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2 Ω
R118	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1K Ω
R121	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470 Ω
R251	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100 Ω
R252	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7 Ω
R253	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R254	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100 Ω
R255	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R256	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470 Ω
R257	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150 Ω
R258	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7 Ω
R259	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150 Ω
R260	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R261	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470 Ω
R262	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R263	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47K Ω
R264	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R265	ERD25TJ2R2	CARBON 0.25W 5% 2R2 Ω
R266	ERD25TJ2R2	CARBON 0.25W 5% 2R2 Ω
R267	ERF7ZK4R7	WOUND 7W 10% 4R7 Ω
R268	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R269	ERQ14AJ101	METAL 0.25W 5% 100 Ω
R271	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R272	ERF7ZK4R7	WOUND 7W 10% 4R7 Ω
R301	ERJ6GEYJ391	S.M.CARB 0.1W 5% 390 Ω
R302	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1K Ω
R303	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75 Ω
R304	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330 Ω
R305	ERJ6GEYJ391	S.M.CARB 0.1W 5% 390 Ω
R306	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1K Ω
R307	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75 Ω
R308	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330 Ω
R309	ERJ6GEYJ391	S.M.CARB 0.1W 5% 390 Ω
R310	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1K Ω
R311	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75 Ω
R312	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330 Ω











Cct Ref	Parts Number	Description			
R351	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R352	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R353	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R355	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R356	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R357	ERDS1TJ114	CARBON	0.5W	5%	110K Ω
R358	ERDS1TJ114	CARBON	0.5W	5%	110K Ω
R359	ERDS1TJ114	CARBON	0.5W	5%	110K Ω
R363	ERD25TJ103	CARBON	0.25W	5%	10K Ω
R364	ERD25TJ103	CARBON	0.25W	5%	10K Ω
R365	ERD25TJ103	CARBON	0.25W	5%	10K Ω
R366	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω
R367	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω
R368	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω
R369	ERD25TJ472	CARBON	0.25W	5%	4K7 Ω
R370	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R372	ERQ12AJ121	FUSIBLE	0.5W	5%	120 Ω ▲
R373	ERJ6GEYJ220	S.M.CARB	0.1W	5%	22 Ω
R374	ERD25TJ274	CARBON	0.25W	5%	270K Ω
R375	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K Ω
R376	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R377	ERQ12HKR22	FUSIBLE	0.5W	5%	R22 Ω ▲
R378	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R379	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R380	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R381	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R451	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R452	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R453	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R454	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R455	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R456	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R457	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R458	ERD25TJ1R5	CARBON	0.25W	5%	1R5 Ω
R459	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R460	ERDS1TJ331	CARBON	0.5W	5%	330 Ω
R461	ERW2PK1R2	WOUND	2W	10%	1R2 Ω ▲
R463	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω
R464	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8 Ω
R465	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R502	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510 Ω
R506	ERD25TJ560	CARBON	0.25W	5%	56 Ω
R507	ERG2FJ470H	METAL	2W	5%	47 Ω ▲
R509	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω
R510	ERDS1FJ152	CARBON	0.5W	5%	1K5 Ω ▲
R555	ERQ12HKR33	METAL	0.5W	5%	R33 Ω ▲
R558	ERDS1TJ124	CARBON	0.5W	5%	120K Ω
R559	ERQ12HKR33	METAL	0.5W	5%	R33 Ω ▲
R560	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270K Ω
R561	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R563	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K Ω
R564	ERJ6GEYJ623	S.M.CARB	0.1W	5%	62K Ω
R566	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R567	ERF7ZK1R0	WOUND	7W	10%	1 Ω ▲
R580	ERG1SJ101	METAL	1W	5%	100 Ω
R581	ERG1SJ152	METAL	1W	5%	1K5 Ω
R582	ERG3FJ102H	METAL	3W	5%	1K Ω ▲
R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R602	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R603	ERJ8GEYJ103	S.M.CARB	.125W	5%	10K Ω
R604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R605	ERD25TJ331	CARBON	0.25W	5%	330 Ω
R606	ERD25TJ331	CARBON	0.25W	5%	330 Ω
R607	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R608	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω

Cct Ref	Parts Number	Description			
R609	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R610	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R611	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R612	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R613	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω
R622	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R636	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R645	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R647	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R648	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω
R650	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R651	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R652	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R654	ERJ6GEYJ622	S.M.CARB	0.1W	5%	6K2 Ω
R655	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R658	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R659	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R660	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R701	ERQ12AJ101	FUSIBLE	0.5W	5%	100 Ω ▲
R702	ERQ12HJ330	FUSIBLE	0.5W	5%	33 Ω ▲
R703	ERG2FJ821	METAL	2W	5%	820 Ω ▲
R704	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R705	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R706	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R707	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R708	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R709	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R710	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R711	ERG1SJ101	METAL	1W	5%	100 Ω
R712	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R801	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω
R803	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω
R805	ERD25TJ473	CARBON	0.25W	5%	47K Ω
R806	ERD25TJ100	CARBON	0.25W	5%	10 Ω
R807	ERD25TJ332	CARBON	0.25W	5%	3K3 Ω
R809	ERD25TJ681	CARBON	0.25W	5%	680 Ω
R810	ERW2PKR27	WOUND	2W	10%	R27 Ω ▲
R811	ERW2PKR27	WOUND	2W	10%	R27 Ω ▲
R812	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω ▲
R813	ERF7ZK2R7	WOUND	7W	20%	2R7 Ω ▲
R814	ERD25TJ473	CARBON	0.25W	5%	47K Ω
R815	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω
R850	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω
R852	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R853	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R854	ERG2FJ223	METAL	2W	5%	22K Ω ▲
R855	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R857	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R858	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R859	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω
R860	ERQ1CJP2R2	FUSIBLE	1W	10%	2R2 Ω ▲
R861	ERD25TJ221	CARBON	0.25W	5%	220 Ω
R862	ERD25TJ272	CARBON	0.25W	5%	2K7 Ω
R863	ERDS1TJ560	CARBON	0.5W	5%	56 Ω
R864	ERDS1TJ680	CARBON	0.5W	5%	68 Ω
R865	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R867	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R868	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R869	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R870	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R871	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R872	ERG1SJ183	METAL	1W	5%	18K Ω
R873	ERG1SJ223	METAL	1W	5%	22K Ω
R874	ERD25TJ104	CARBON	0.25W	5%	100K Ω
R876	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R877	ERW2PKR47	WOUND	2W	10%	R47 Ω ▲

Cct Ref	Parts Number	Description				
R878	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R913	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R914	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω	
R915	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R916	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R919	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω	Δ
R920	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω	Δ
R921	ERD25TJ471	CARBON	0.25W	5%	470 Ω	
R922	ERD25TJ393	CARBON	0.25W	5%	39K Ω	
R923	ERD25TJ393	CARBON	0.25W	5%	39K Ω	
R924	ERDS1FJ390	CARBON	0.5W	5%	39 Ω	Δ
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R927	ERD25TJ471	CARBON	0.25W	5%	470 Ω	
R928	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω	
R929	ERDS1FJ471	CARBON	0.5W	5%	470 Ω	Δ
R930	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω	
R931	ERDS1FJ390	CARBON	0.5W	5%	39 Ω	Δ
R935	ERQ14AJW3R9	FUSIBLE	0.25W	5%	3R9 Ω	Δ
R936	ERQ1CJP331	FUSIBLE	1W	5%	330 Ω	Δ
R951	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R952	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R953	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R954	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1051	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1062	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R1063	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1101	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1103	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R1104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R1105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1106	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1108	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1109	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1110	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1111	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R1112	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1115	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1118	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1119	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1123	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1125	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1128	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R1129	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R1130	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1131	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1132	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1133	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R1136	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K Ω	
R1137	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1138	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470K Ω	
R1139	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1140	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1141	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1146	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	

Cct Ref	Parts Number	Description				
R1147	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1148	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1149	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R1151	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1156	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1157	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1158	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1159	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1160	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R1161	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1163	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1164	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1165	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1167	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω	
R1168	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R1169	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1170	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R1171	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω	
R1172	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R1173	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1174	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R1175	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω	
R1177	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1251	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R1252	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R1253	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R1254	ERJ6GEYJ512	S.M.CARB	0.1W	5%	5K1 Ω	
R1255	ERJ6GEYJ912	S.M.CARB	0.1W	5%	9K1 Ω	
R1900	ERQ12HJ150	FUSIBLE	0.1W	5%	15 Ω	Δ
R1901	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R1902	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1903	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1904	ERDS1TJ6R8	CARBON	0.5W	5%	6R8 Ω	
R1905	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1906	ERJ6GEYJ513	S.M.CARB	0.1W	5%	51K Ω	
R1907	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω	
R1908	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω	
R1909	ERDS1TJ6R8	CARBON	0.5W	5%	6R8 Ω	
R2101	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R2102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2103	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2104	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2106	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2107	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2108	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2109	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R2110	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2111	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R2112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2113	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R2114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2115	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2118	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2120	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2305	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2311	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2401	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2402	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2403	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2404	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	

Cct Ref	Parts Number	Description			
R2405	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2406	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2407	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2408	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2409	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2410	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2411	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2412	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2413	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R2414	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R2415	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R2416	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R2417	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R2418	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R2419	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω
R2420	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2421	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R2422	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2423	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2424	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2425	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2426	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2427	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2428	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2429	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2430	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2431	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2432	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2436	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2437	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2438	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2439	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2440	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2441	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2442	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2445	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R2446	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2448	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2449	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2450	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R2451	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2454	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2455	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2463	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2464	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2475	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2476	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2477	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R2478	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2479	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2480	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R2481	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2482	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2483	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R2484	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2485	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2486	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R2487	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2488	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2489	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R2490	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2491	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2492	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R2493	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R2498	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2499	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω

Cct Ref	Parts Number	Description			
R2505	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2506	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2507	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2508	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2509	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R2510	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2511	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2512	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2513	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2514	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2515	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2516	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2517	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R2518	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R2519	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R2520	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2521	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2523	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R2524	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R2525	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2526	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2527	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2528	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2529	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R2530	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R2531	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2532	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2533	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R2534	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R2535	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2536	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2537	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R2702	ERDS1TJ154	CARBON	0.5W	5%	150 Ω
R2703	ERDS1TJ184	CARBON	0.5W	5%	180 Ω
R2704	ERG5FJ473	METAL	5W	5%	47K Ω 
R2705	ERD2FCVJ4R7P	CARBON	2W	5%	4R7 Ω 
R2706	ERG1FJ101P	METAL	1W	5%	100 Ω 
R2707	ERG1FJ101P	METAL	1W	5%	100 Ω 
R2708	ERD2FCVJ4R7P	CARBON	2W	5%	4R7 Ω 
R2709	ERW12PKR33	WOUND	0.5W	10%	R33 Ω 
R2712	ERG3FJ101	METAL	3W	5%	100 Ω 
R2713	ERG3FJ101	METAL	3W	5%	100 Ω 
R2714	ERDS1TJ2R2	CARBON	0.5W	5%	2R2 Ω
R2715	ERD25TJ101	CARBON	0.25W	5%	100 Ω
R2716	ERD25TJ202	CARBON	0.25W	5%	2K Ω
R2717	ERDS1TJ103	CARBON	0.5W	5%	10K Ω
R2718	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R2719	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2720	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2721	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2722	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R2724	ERJ6GEYJ1R0	S.M.CARB	0.1W	5%	1 Ω
R2725	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R2726	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R2727	ERG3FJ471	METAL	3W	5%	470 Ω 
R2728	ERG3FJ471	METAL	3W	5%	470 Ω 
R2729	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R2730	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R2731	ERJ6GEYJ2R2	S.M.CARB	0.1W	5%	2R2 Ω
R2732	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R2733	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R2734	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R2735	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R2736	ERJ6GEYJ2R2	S.M.CARB	0.1W	5%	2R2 Ω
R2737	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2738	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω

Cct Ref	Parts Number	Description			
R2739	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2740	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2741	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2742	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2743	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3001	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3002	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3003	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3004	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3006	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3007	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3008	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3009	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3010	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3011	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3012	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3013	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3015	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3016	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3017	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3019	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3020	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3021	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3022	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3023	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R3024	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3025	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3026	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3044	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3046	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3047	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3048	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3049	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3050	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3057	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3204	ERG2SJS151	METAL	2W	5%	150 Ω
R3205	ERG2SJS151	METAL	2W	5%	150 Ω
R3207	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3208	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3210	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3211	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3212	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3213	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3214	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R3215	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3216	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3217	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3218	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3219	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3220	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R3221	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3222	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3223	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3224	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3225	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R3226	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3227	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3228	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R3229	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3230	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3231	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R3232	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω

Cct Ref	Parts Number	Description			
R3233	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R3234	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3402	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3403	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3404	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω
R3405	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3406	ERJ6GEYJ301	S.M.CARB	0.1W	5%	300 Ω
R3407	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R3408	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3409	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3603	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3606	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3607	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3608	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R3609	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3610	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3613	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R3614	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
CAPACITORS					
C102	ECJ2VF1H103Z	ELECT	350V		10nF
C103	ECJ2VF1H104Z	ELECT	350V		100nF
C106	ECUV1H560JCX	S.M. CAP	50V		56pF
C107	ECJ2VF1H104Z	ELECT	350V		100nF
C108	ECA1CM100GB	ELECT	16V		10μF
C109	ECUV1H102JCX	S.M. CAP	50V		1nF
C110	ECJ2VF1H103Z	ELECT	350V		10nF
C111	ECA1HMR33GB	ELECT	50V		10nF
C117	ECJ2VF1H103Z	ELECT	350V		10nF
C118	ECJ2VF1H104Z	ELECT	350V		100nF
C119	ECA1CM221GB	ELECT	16V		220μF
C120	ECA1CM221GB	ELECT	16V		220μF
C121	ECUV1H561KBX	S.M. CAP	50V		560pF
C124	ECUV1H220JCX	S.M. CAP	50V		22pF
C125	ECUV1H100DCX	S.M. CAP	50V		10pF
C251	ECA1HM220GB	ELECT	50V		22μF
C252	ECUV1H103KBX	S.M. CAP	50V		10nF
C253	ECA1HM4R7GB	ELECT	50V		4.7μF
C254	ECQM1H474J	FILM	50V		470nF
C255	ECA1EM101GB	ELECT	25V		100μF
C256	ECUV1H103KBX	S.M. CAP	50V		10nF
C257	ECA1HM4R7GB	ELECT	50V		4.7μF
C258	ECA1HM220GB	ELECT	50V		22μF
C259	ECQM1H474J	FILM	50V		470nF
C260	ECA1VM102GB	ELECT	35V		1nF
C261	ECA1VM102GB	ELECT	35V		1nF
C262	ECQM1H224J	FILM	50V		220nF
C263	ECA1HM010GB	ELECT	50V		1μF
C264	ECA1HHG222E	ELECT	50V		1μF
C265	ECQM1H224J	FILM	50V		220nF
C266	ECA1HM010GB	ELECT	50V		1μF
C267	ECJ2VB1H104K	ELECT	350V		100nF
C268	ECJ2VB1H104K	ELECT	350V		100nF
C270	ECJ2VB1H104K	ELECT	350V		100nF
C301	ECJ2VB1C104K	ELECT	350V		100nF
C302	ECJ2VB1C104K	ELECT	350V		100nF
C303	ECJ2VB1C104K	ELECT	350V		100nF
C304	ECA1CM100GB	ELECT	16V		10μF
C351	ECUV1H090DCN	S.M. CAP	50V		90pF
C352	ECUV1H090DCN	S.M. CAP	50V		90pF
C353	ECUV1H090DCN	S.M. CAP	50V		90pF
C354	ECQM2104KZ	FILM	250V		100nF
C355	ECUV1H471JCX	S.M. CAP	50V		470pF

Cct Ref	Parts Number	Description			
C356	ECUV1H471JCX	S.M. CAP	50V	470pF	
C357	ECUV1H471JCX	S.M. CAP	50V	470pF	
C358	ECQM1H224J	FILM	50V	220nF	
C360	ECKC3D152J	CERAMIC	2KV	1.5nF	⚠
C361	ECA1HMR47GB	ELECT	50V	1.5nF	
C363	ECA1VM471GB	ELECT	35V	470μF	
C364	ECJ2VF1H103Z	ELECT	350V	10nF	
C366	ECA1CM100GB	ELECT	16V	10μF	
C451	ECUV1H102JX	S.M. CAP	50V	1nF	
C453	ECUV1H152KBX	S.M. CAP	50V	1.5pF	
C454	ECUV1H223KBM	S.M. CAP	50V	22nF	
C455	ECA1HM100GB	ELECT	50V	10μF	
C456	ECA1HHG221B	ELECT	50V	220μF	
C458	ECQB1222JF3	FILM	100V	2.2nF	
C459	222236516154	FILM	160V	150nF	
C461	ECCR2H270J	CERAMIC	500V	27pF	
C508	ECQV1H105JZ	FILM	50V	1μF	
C509	ECA1VM470B	ELECT	35V	47μF	
C510	ECUV1H104KBX	S.M. CAP	50V	100nF	
C511	ECQM2683JZ	FILM	250V	68nF	
C551	222237544182	FILM	440V	1.8nF	
C552	ECWH15H102JN	FILM	1500V	1nF	
C556	ECQF6303JZ	FILM	630V	1nF	
C557	ECKC2H471J	CERAMIC	500V	470pF	⚠
C558	ECA1HHG471E	ELECT	50V	470μF	
C561	ECA1EHG102B	ELECT	25V	470μF	
C562	ECKC2H101J	CERAMIC	500V	100pF	⚠
C563	ECA2EHG220B	ELECT	250V	20μF	
C564	ECEA2AU2R2	ELECT	100V	2.2μF	
C565	ECQP1H273J	FILM	100V	2.2μF	
C566	ECKC2H471J	CERAMIC	500V	470pF	⚠
C567	ECA1EHG102B	ELECT	25V	470pF	⚠
C568	ECKC2H471J	CERAMIC	500V	470pF	⚠
C569	ECKC2H102J	CERAMIC	500V	1nF	⚠
C580	ECA2VM010B	ELECT	63V	1μF	
C581	ECWF2H125J	FILM	500V	1.2μF	⚠
C582	ECWF2H684J	FILM	500V	680nF	⚠
C583	ECWH15H822JN	FILM	1500V	8.2nF	
C584	TAC4R6T682JC	CERAMIC	400V	6.8μF	
C601	ECUV1H104KBX	S.M. CAP	50V	100nF	
C602	ECA1HM101GB	ELECT	50V	100μF	
C603	ECUV1H102JCX	S.M. CAP	50V	1nF	
C604	ECJ2VF1H223Z	ELECT	350V	22nF	
C605	ECA1HM101GB	ELECT	50V	100μF	
C606	ECA1HM3R3GB	ELECT	50V	3.3μF	
C607	ECJ2VF1H104Z	ELECT	350V	100nF	
C608	ECUV1H153KBX	S.M. CAP	50V	15nF	
C609	ECUV1H153KBX	S.M. CAP	50V	15nF	
C610	ECUV1H153KBX	S.M. CAP	50V	15nF	
C611	ECUV1H153KBX	S.M. CAP	50V	15nF	
C612	ECUV1H153KBX	S.M. CAP	50V	15nF	
C613	ECUV1H153KBX	S.M. CAP	50V	15nF	
C614	ECUV1H050CCX	S.M. CAP	50V	50pF	
C615	ECUV1H050CCX	S.M. CAP	50V	50pF	
C616	ECA1HM101GB	ELECT	50V	100μF	
C617	ECUV1H223KBX	S.M. CAP	50V	22nF	
C618	ECA1CM221GB	ELECT	16V	220μF	
C619	ECJ2VB1H473K	ELECT	350V	47nF	
C620	ECA1HM101GB	ELECT	50V	100μF	
C621	ECJ2VB1C104K	ELECT	350V	100nF	
C622	ECUV1H683KBX	S.M. CAP	50V	68nF	
C623	ECUV1H102JCX	S.M. CAP	50V	1nF	
C624	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C625	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C626	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C627	ECJ3VB1C474K	ELECT	3.5KV	470nF	

Cct Ref	Parts Number	Description			
C628	ECA1CM100GB	ELECT	16V	10μF	
C629	ECUV1H104KBX	S.M. CAP	50V	100nF	
C630	ECUV1H100DCX	S.M. CAP	50V	10pF	
C631	ECUV1H683ZFX	S.M. CAP	50V	68nF	
C632	ECUV1H270JCX	S.M. CAP	50V	27pF	
C633	ECUV1H271JCX	S.M. CAP	50V	270pF	
C634	ECUV1H271JCX	S.M. CAP	50V	270pF	
C635	ECUV1H180JCX	S.M. CAP	50V	18pF	
C636	ECUV1H271JCX	S.M. CAP	50V	270pF	
C637	ECUV1H101JCX	S.M. CAP	50V	100pF	
C638	ECUV1H471JCX	S.M. CAP	50V	470pF	
C639	ECUV1H332KBM	S.M. CAP	50V	3.3nF	
C701	ECA1HHG101B	ELECT	50V	100μF	
C702	ECUV1H103KBX	S.M. CAP	50V	10nF	
C703	ECEA1HGE100	ELECT	50V	10μF	
C704	ECQB1H223K	FILM	50V	22nF	
C705	ECQB1H152K	FILM	50V	1.5nF	
C801	222233510224	FILM	50V	220nF	
C804	ECQE2A474MWB	FILM	100V	470nF	
C806	ECKWNA101MBC	CERAMIC	400V	100μF	
C807	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C808	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C809	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C810	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C811	ECOS2GA221CA	ELECT	400V	220μF	
C814	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C815	ECKC1H471J	CERAMIC	50V	470pF	
C816	EEUFC1E820B	CERAMIC	25V	82pF	
C817	ECQE6104K	FILM	600V	100nF	⚠
C818	ECKWNA332MEC	CERAMIC	250V	3.3nF	
C819	ECQB1H182K	FILM	50V	1.8nF	
C850	ECKC3D471JB	CERAMIC	2KV	470pF	⚠
C851	ECA2CM221E	ELECT	160V	220μF	
C852	ECA2CHG101E	ELECT	160V	100μF	
C853	ECKC2H471J	CERAMIC	500V	470pF	⚠
C854	ECA1EM102GB	ELECT	25V	100μF	
C855	ECKC2H471J	CERAMIC	500V	470pF	⚠
C856	ECA1AHG222B	ELECT	10V	470pF	
C857	ECKC2H471J	CERAMIC	500V	470pF	⚠
C858	ECEA1HGE102	ELECT	50V	470pF	
C859	ECJ2VF1H104Z	ELECT	350V	100nF	
C860	ECA1HM101GB	ELECT	50V	100μF	
C862	ECJ2VF1H104Z	ELECT	350V	100nF	
C863	ECA1HM101GB	ELECT	50V	100μF	
C866	ECJ2VF1H104Z	ELECT	350V	100nF	
C867	ECA1CM100GB	ELECT	16V	10μF	
C868	ECA1CM100GB	ELECT	16V	10μF	
C869	ECA1EM101GB	ELECT	25V	100μF	
C870	ECA1EM471GB	ELECT	25V	470μF	
C871	ECA1CM102B	ELECT	16V	470μF	
C872	ECA1CM471GB	ELECT	16V	470μF	
C873	ECA1CM100GB	ELECT	16V	10μF	
C875	ECA2CM4R7B	ELECT	160V	10μF	
C876	ECA1AHG471E	ELECT	10V	470pF	
C902	ECA1VM101GB	ELECT	35V	100μF	
C903	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C904	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C906	ECUV1H471KBX	S.M. CAP	50V	470pF	
C908	ECUV1H151JCX	S.M. CAP	50V	150pF	
C909	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C910	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C911	ECUV1H151JCX	S.M. CAP	50V	150pF	
C912	ECEA2CU100	ELECT	160V	10μF	
C913	ECA1HM101GB	ELECT	50V	100μF	
C914	ECA1HM101GB	ELECT	50V	100μF	
C916	ECEA2CGE100	ELECT	160V	10μF	

Cct Ref	Parts Number	Description		
C950	ECJ2VB1C104K	ELECT	350V	100nF
C1061	ECUV1H103KBX	S.M. CAP	50V	10nF
C1062	ECA1HM101GB	ELECT	50V	100µF
C1063	ECUV1H331JCX	S.M. CAP	50V	330pF
C1101	ECJ2VF1H104Z	ELECT	350V	100nF
C1102	ECA0JM101G	ELECT	6.3V	100µF
C1103	ECUV1H220JCX	S.M. CAP	50V	22pF
C1104	ECUV1H220JCX	S.M. CAP	50V	22pF
C1105	ECUV1H101JCX	S.M. CAP	50V	100pF
C1106	ECKC2H681J	CERAMIC	500V	680pF
C1108	ECJ2VB1H333K	ELECT	350V	33nF
C1111	ECA1CM100GB	ELECT	16V	10µF
C1112	ECUV1H103KBX	S.M. CAP	50V	10nF
C1115	ECJ3VB1C474K	ELECT	3.5KV	470nF
C1116	ECUV1H472KBX	S.M. CAP	50V	4.7nF
C1117	ECJ2VF1H104Z	ELECT	350V	100nF
C1118	ECUV1H103KBX	S.M. CAP	50V	10nF
C1119	ECUV1H221JCX	S.M. CAP	50V	220pF
C1120	ECJ2VF1H104Z	ELECT	350V	100nF
C1121	ECUV1H221JCX	S.M. CAP	50V	220pF
C1123	ECUV1H101JCX	S.M. CAP	50V	100pF
C1124	ECUV1H391JCX	S.M. CAP	50V	390pF
C1125	ECUV1H391JCX	S.M. CAP	50V	390pF
C1126	ECUV1H391JCX	S.M. CAP	50V	390pF
C1127	ECUV1H221JCX	S.M. CAP	50V	220pF
C1128	ECUV1H223KBX	S.M. CAP	50V	22nF
C1129	ECUV1H270JCX	S.M. CAP	50V	27pF
C1900	ECQB1H153K	FILM	50V	15nF
C1901	ECUV1H103KBX	S.M. CAP	50V	10nF
C1903	ECA1EM470GB	ELECT	25V	47µF
C1904	ECQB1H104J	FILM	50V	100nF
C1905	ECQB1H104J	FILM	50V	100nF
C1909	ECUV1H103KBX	S.M. CAP	50V	10nF
C2101	ECUV1H102JCX	S.M. CAP	50V	1nF
C2102	ECUV1H102JCX	S.M. CAP	50V	1nF
C2103	ECUV1H102JCX	S.M. CAP	50V	1nF
C2104	ECUV1H102JCX	S.M. CAP	50V	1nF
C2105	ECUV1H102JCX	S.M. CAP	50V	1nF
C2106	ECUV1H102JCX	S.M. CAP	50V	1nF
C2107	ECUV1H102JCX	S.M. CAP	50V	1nF
C2108	ECUV1H102JCX	S.M. CAP	50V	1nF
C2109	ECUV1H102JCX	S.M. CAP	50V	1nF
C2110	ECUV1H102JCX	S.M. CAP	50V	1nF
C2111	ECA1CM100GB	ELECT	16V	10µF
C2112	ECA1CM100GB	ELECT	16V	10µF
C2113	ECA1HM3R3GB	ELECT	50V	3.3µF
C2114	ECJ2VF1H104Z	ELECT	350V	100nF
C2115	ECUV1H221JCX	S.M. CAP	50V	220pF
C2116	ECUV1H221JCX	S.M. CAP	50V	220pF
C2117	ECUV1H221JCX	S.M. CAP	50V	220pF
C2118	ECUV1H221JCX	S.M. CAP	50V	220pF
C2119	ECUV1H221JCX	S.M. CAP	50V	220pF
C2120	ECUV1H221JCX	S.M. CAP	50V	220pF
C2121	ECA1CM100GB	ELECT	16V	10µF
C2122	ECJ2VF1H104Z	ELECT	350V	100nF
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF
C2124	ECUV1H070DTX	S.M. CAP	50V	70pF
C2125	ECUV1H470JCX	S.M. CAP	50V	47pF
C2126	ECUV1H070DTX	S.M. CAP	50V	70pF
C2127	ECUV1H010CCX	S.M. CAP	50V	1pF
C2128	ECUV1H010CCX	S.M. CAP	50V	1pF
C2129	ECA1CM102B	ELECT	16V	1pF
C2130	ECA1CM331B	ELECT	16V	330µF
C2131	ECJ2VF1H103Z	ELECT	350V	10nF
C2132	ECJ2VF1H103Z	ELECT	350V	10nF
C2134	ECJ2VF1H103Z	ELECT	350V	10nF

Cct Ref	Parts Number	Description		
C2135	ECA1HM101GB	ELECT	50V	100µF
C2136	ECJ2VF1H104Z	ELECT	350V	100nF
C2137	ECA1CM100GB	ELECT	16V	10µF
C2138	ECUV1H471KBX	S.M. CAP	50V	470pF
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF
C2140	ECA1HM101GB	ELECT	50V	100µF
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF
C2401	ECUV1H103KBX	S.M. CAP	50V	10nF
C2402	ECUV1H103KBX	S.M. CAP	50V	10nF
C2403	ECA1HM010GB	ELECT	50V	1µF
C2405	ECA1HM010GB	ELECT	50V	1µF
C2406	ECA1HM101GB	ELECT	50V	100µF
C2407	ECA1CM471GB	ELECT	16V	470µF
C2408	ECA1HM010GB	ELECT	50V	1µF
C2409	ECA1CM100GB	ELECT	16V	10µF
C2410	ECUV1H152KBX	S.M. CAP	50V	1.5pF
C2411	ECUV1H221JX	S.M. CAP	50V	220pF
C2412	ECUV1H471KBX	S.M. CAP	50V	470pF
C2413	ECUV1H102KBX	S.M. CAP	50V	1nF
C2414	ECUV1H102KBX	S.M. CAP	50V	1nF
C2415	ECUV1H102KBX	S.M. CAP	50V	1nF
C2416	ECUV1H102KBX	S.M. CAP	50V	1nF
C2417	ECUV1H102KBX	S.M. CAP	50V	1nF
C2418	ECA1CM220GB	ELECT	16V	22µF
C2419	ECA1CM220GB	ELECT	16V	22µF
C2420	ECUV1H152KBX	S.M. CAP	50V	1.5pF
C2421	ECUV1H471KBX	S.M. CAP	50V	470pF
C2422	ECA1CM100GB	ELECT	16V	10µF
C2423	ECJ2VB1H104K	ELECT	350V	100nF
C2424	ECA1HM3R3GB	ELECT	50V	3.3µF
C2427	ECUV1H152KBX	S.M. CAP	50V	1.5pF
C2428	ECUV1H471KBX	S.M. CAP	50V	470pF
C2429	ECA1CM100GB	ELECT	16V	10µF
C2430	ECUV1H010CCX	S.M. CAP	50V	1pF
C2431	ECUV1H010CCX	S.M. CAP	50V	1pF
C2432	ECUV1H101JCX	S.M. CAP	50V	100pF
C2434	ECA1HM010GB	ELECT	50V	1µF
C2435	ECA1HM010GB	ELECT	50V	1µF
C2436	ECUV1H101JCX	S.M. CAP	50V	100pF
C2437	ECUV1H101JCX	S.M. CAP	50V	100pF
C2438	ECA1HM010GB	ELECT	50V	1µF
C2439	ECA1HM010GB	ELECT	50V	1µF
C2440	ECUV1H101JCX	S.M. CAP	50V	100pF
C2441	ECUV1H103KBX	S.M. CAP	50V	10nF
C2445	ECUV1H103KBX	S.M. CAP	50V	10nF
C2451	ECA1CM100GB	ELECT	16V	10µF
C2452	ECJ2VF1H104Z	ELECT	350V	100nF
C2453	ECA1HM010GB	ELECT	50V	1µF
C2454	ECUV1H222KBX	S.M. CAP	50V	2.2nF
C2455	ECA1HM010GB	ELECT	50V	1µF
C2456	ECUV1H222KBX	S.M. CAP	50V	2.2nF
C2457	ECA1HM010GB	ELECT	50V	1µF
C2458	ECUV1H222KBX	S.M. CAP	50V	2.2nF
C2459	ECA1HM010GB	ELECT	50V	1µF
C2460	ECUV1H222KBX	S.M. CAP	50V	2.2nF
C2461	ECA1HM010GB	ELECT	50V	1µF
C2462	ECUV1H222KBX	S.M. CAP	50V	2.2nF
C2467	ECUV1H103KBX	S.M. CAP	50V	10nF
C2468	ECA1HM010GB	ELECT	50V	1µF
C2469	ECA1HM010GB	ELECT	50V	1µF
C2470	ECA1CM100GB	ELECT	16V	10µF
C2471	ECJ2VB1H104K	ELECT	350V	100nF
C2472	ECUV1H102JCX	S.M. CAP	50V	1nF
C2474	ECA1CM470GB	ELECT	16V	47µF
C2475	ECA1HM010GB	ELECT	50V	1µF
C2476	ECA1HM010GB	ELECT	50V	1µF

Cct Ref	Parts Number	Description		
C2477	ECA1HM010GB	ELECT	50V	1μF
C2478	ECA1HM010GB	ELECT	50V	1μF
C2479	ECUV1H101JCX	S.M. CAP	50V	100pF
C2480	ECUV1H101JCX	S.M. CAP	50V	100pF
C2481	ECA1HM101GB	ELECT	50V	100μF
C2482	ECA1HM101GB	ELECT	50V	100μF
C2483	ECA1CM470GB	ELECT	16V	47μF
C2484	ECUV1H103KBX	S.M. CAP	50V	10nF
C2707	ECOS2GA101BB	ELECT	400V	100μF
C2708	ECKC3D471JB	CERAMIC	2KV	470pF
C2709	ECKC2H103J	CERAMIC	50V	10nF
C2710	ECQM1H333J	FILM	50V	33nF
C2711	ECQM1H683J	FILM	50V	68nF
C2712	ECA1CM221GB	ELECT	16V	220μF
C2713	ECA1CM221GB	ELECT	16V	220μF
C2714	ECKCWS471J	CERAMIC	400V	470pF
C2715	ECKC2H471J	CERAMIC	500V	470pF
C2717	ECA1VHG331B	ELECT	35V	330pF
C2718	ECA1HHG471E	ELECT	50V	470μF
C2719	ECQM1H104J	FILM	50V	100nF
C2720	ECA1HM010GB	ELECT	50V	1μF
C2721	ECJ2VB1C104K	ELECT	350V	100nF
C2722	ECJ2VB1C104K	ELECT	350V	100nF
C2723	ECA1HM101GB	ELECT	50V	100μF
C2724	ECJ2VB1H104K	ELECT	350V	100nF
C2725	ECA1VM221B	ELECT	35V	220μF
C2726	ECJ2VF1H103Z	ELECT	350V	10nF
C2727	ECA1VM101GB	ELECT	35V	100μF
C2728	ECJ2VB1H104K	ELECT	350V	100nF
C2730	ECUV1H562KBX	S.M. CAP	50V	5.6nF
C2732	ECQM1H104J	FILM	50V	100nF
C2733	ECA1HM010GB	ELECT	50V	1μF
C2734	ECUV1H101JCX	S.M. CAP	50V	100pF
C2735	ECA1HM330B	ELECT	50V	33μF
C2736	ECJ2VF1H103Z	ELECT	350V	10nF
C2737	ECA1VM102GB	ELECT	35V	1nF
C2738	ECUV1H222KBX	S.M. CAP	50V	2.2nF
C2739	ECA1VM102GB	ELECT	35V	1nF
C2740	ECJ2VF1H103Z	ELECT	350V	10nF
C2741	ECUV1H153KBX	S.M. CAP	50V	15nF
C2742	ECQM1H474J	FILM	50V	470nF
C2743	ECA1HM010GB	ELECT	50V	1μF
C2744	ECUV1H101JCX	S.M. CAP	50V	100pF
C2745	ECA1HM330B	ELECT	50V	33μF
C2746	ECJ2VF1H103Z	ELECT	350V	10nF
C2747	ECA1VM221B	ELECT	35V	220μF
C2748	ECUV1H222KBX	S.M. CAP	50V	2.2nF
C2749	ECA1VM101GB	ELECT	35V	100μF
C2750	ECJ2VF1H103Z	ELECT	350V	10nF
C2751	ECJ2VF1H683Z	ELECT	350V	68nF
C2752	ECQM1H474J	FILM	50V	470nF
C2753	ECUV1H332KBX	S.M. CAP	50V	3.3nF
C2755	ECUV1H332KBX	S.M. CAP	50V	3.3nF
C2756	ECA1CM220GB	ELECT	16V	22μF
C3001	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3002	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3003	ECA1CM470GB	ELECT	16V	47μF
C3005	ECUV1H561JCX	S.M. CAP	50V	560pF
C3006	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3007	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3008	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3009	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3010	ECA1CM470GB	ELECT	16V	47μF
C3012	ECUV1H561JCX	S.M. CAP	50V	560pF
C3013	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3014	ECUV1H222JCX	S.M. CAP	50V	2.2nF


Cct Ref	Parts Number	Description		
C3015	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3016	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3017	ECA1CM470GB	ELECT	16V	47μF
C3019	ECUV1H561JCX	S.M. CAP	50V	560pF
C3020	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3021	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3022	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3023	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3024	ECA1CM470GB	ELECT	16V	47μF
C3026	ECUV1H561JCX	S.M. CAP	50V	560pF
C3027	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3029	ECA1HM101GB	ELECT	50V	100μF
C3032	ECUV1H271JCX	S.M. CAP	50V	270pF
C3033	ECUV1H271JCX	S.M. CAP	50V	270pF
C3034	ECUV1H271JCX	S.M. CAP	50V	270pF
C3035	ECUV1H271JCX	S.M. CAP	50V	270pF
C3101	ECUV1H104KBX	S.M. CAP	50V	100nF
C3102	ECUV1E104KBX	S.M. CAP	25V	100nF
C3111	ECUV1H391JCX	S.M. CAP	50V	390pF
C3112	ECUV1H271JCX	S.M. CAP	50V	270pF
C3201	ECUV1H103KBX	S.M. CAP	50V	10nF
C3202	ECUV1H103KBX	S.M. CAP	50V	10nF
C3203	ECUV1H561JCX	S.M. CAP	50V	560pF
C3204	ECUV1H561JCX	S.M. CAP	50V	560pF
C3205	ECA1HM470GB	ELECT	50V	47μF
C3206	ECUV1H561JCX	S.M. CAP	50V	560pF
C3207	ECUV1H561JCX	S.M. CAP	50V	560pF
C3208	ECA1HM470GB	ELECT	50V	47μF
C3209	ECUV1H103KBX	S.M. CAP	50V	10nF
C3210	ECJ2VB1C104K	ELECT	350V	100nF
C3211	ECUV1H103KBX	S.M. CAP	50V	10nF
C3212	ECUV1H103KBX	S.M. CAP	50V	10nF
C3213	ECUV1H103KBX	S.M. CAP	50V	10nF
C3214	ECJ2VB1C104K	ELECT	350V	100nF
C3215	ECUV1H103KBX	S.M. CAP	50V	10nF
C3216	ECA1CM330GB	ELECT	16V	33pF
C3217	ECJ2VB1C104K	ELECT	350V	100nF
C3221	ECA1HM4R7GB	ELECT	50V	4.7μF
C3222	ECUV1H104KBX	S.M. CAP	50V	100nF
C3401	ECQM1H224J	FILM	50V	220nF
C3402	ECUV1H101JCX	S.M. CAP	50V	100pF
C3403	ECA1HM101GB	ELECT	50V	100μF
C3404	ECQM1H224J	FILM	50V	220nF
C3405	ECUV1H180JCX	S.M. CAP	50V	18pF
C3406	ECUV1H271JCX	S.M. CAP	50V	270pF
C3407	ECUV1H271JCX	S.M. CAP	50V	270pF
C3408	ECA1HM101GB	ELECT	50V	100μF
C3601	ECA1HM101GB	ELECT	50V	100μF
JSE28	ECUV1H104KBX	S.M. CAP	50V	100nF
TERMINALS AND LINKS				
JK2401	LPR1250-1150	RCA JACK		
JK3201	TJB16656	A.V. TERMINAL		
JK2702	TJB8E013	6 PIN PUSH TERMINAL		
R2710	TSF19252	FS LINK		
SWITCHES				
S802	ESB92S11B	SWITCH		
S1251	EVQ23405R	SWITCH		
S1252	EVQ23405R	SWITCH		
S1253	EVQ23405R	SWITCH		
S1254	EVQ23405R	SWITCH		
S1255	EVQ23405R	SWITCH		

SCHEMATIC DIAGRAMS FOR MODEL

TX-W32R4DP


(EURO-4 CHASSIS)



IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.



NOTE

1. RESISTOR
All resistors are carbon 1/4W resistor, unless marked otherwise.
Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)
2. CAPACITORS
All capacitors are ceramic 50V unless marked otherwise.
Unit of capacitance is μ F unless otherwise stated.
3. COIL
Unit of inductance is μ H, unless otherwise stated.

4. TEST POINT
 Test Point Position

5. EARTH SYMBOL
 Chassis Earth (Cold)
 Line Earth (Hot)

6. VOLTAGE MEASUREMENT
Voltage is measured by a d.c. voltmeter.
Measurement conditions are as follows:
Power source a.c. 220V-240V, 50Hz
Receiving Signal Colour Bar signal (RF)
All customer controls Maximum position

7.
 Indicates the Video signal path
 Indicates the Audio signal path

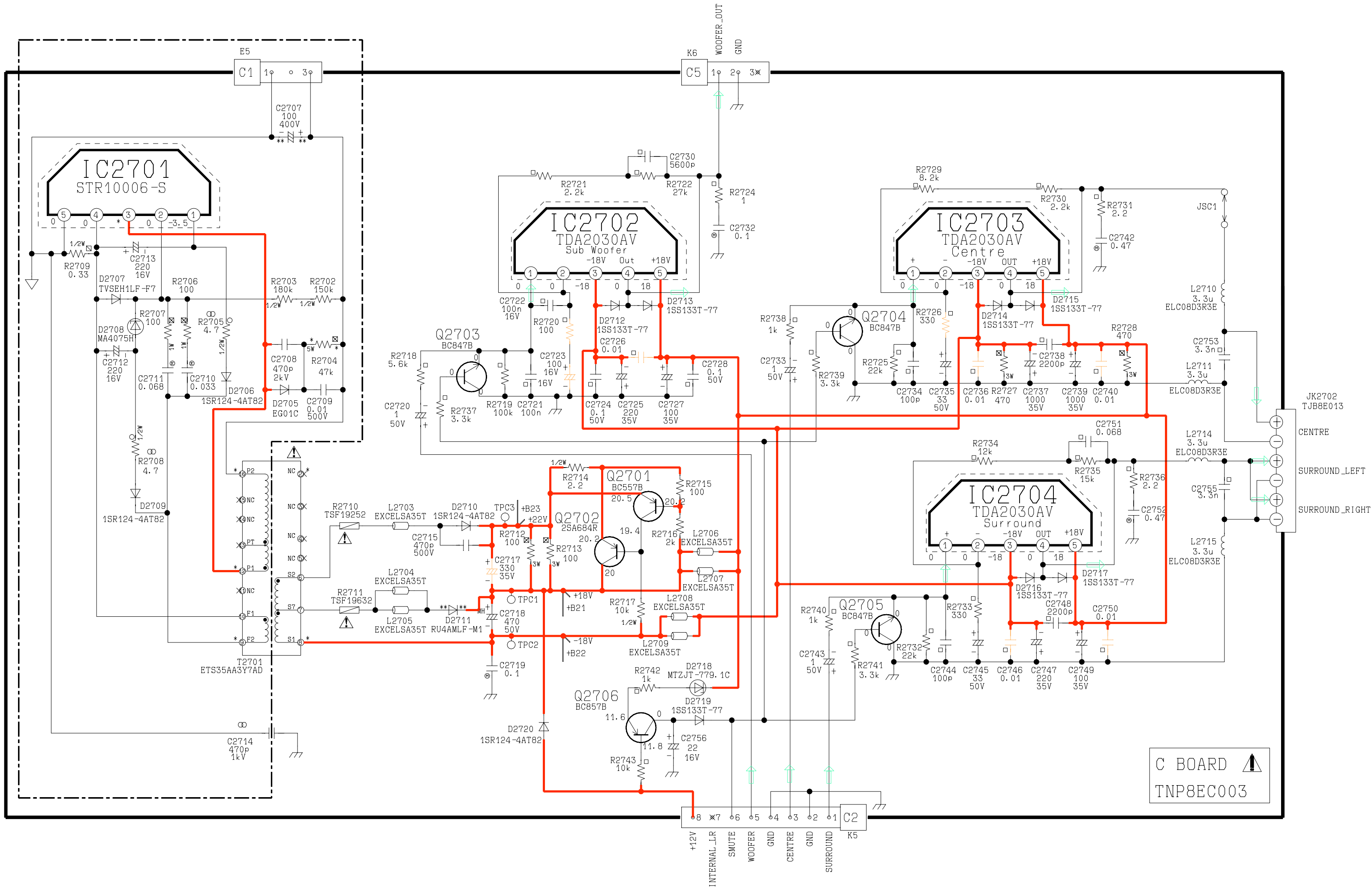
These schematic diagrams are the latest at time of printing and are subject to change without notice.

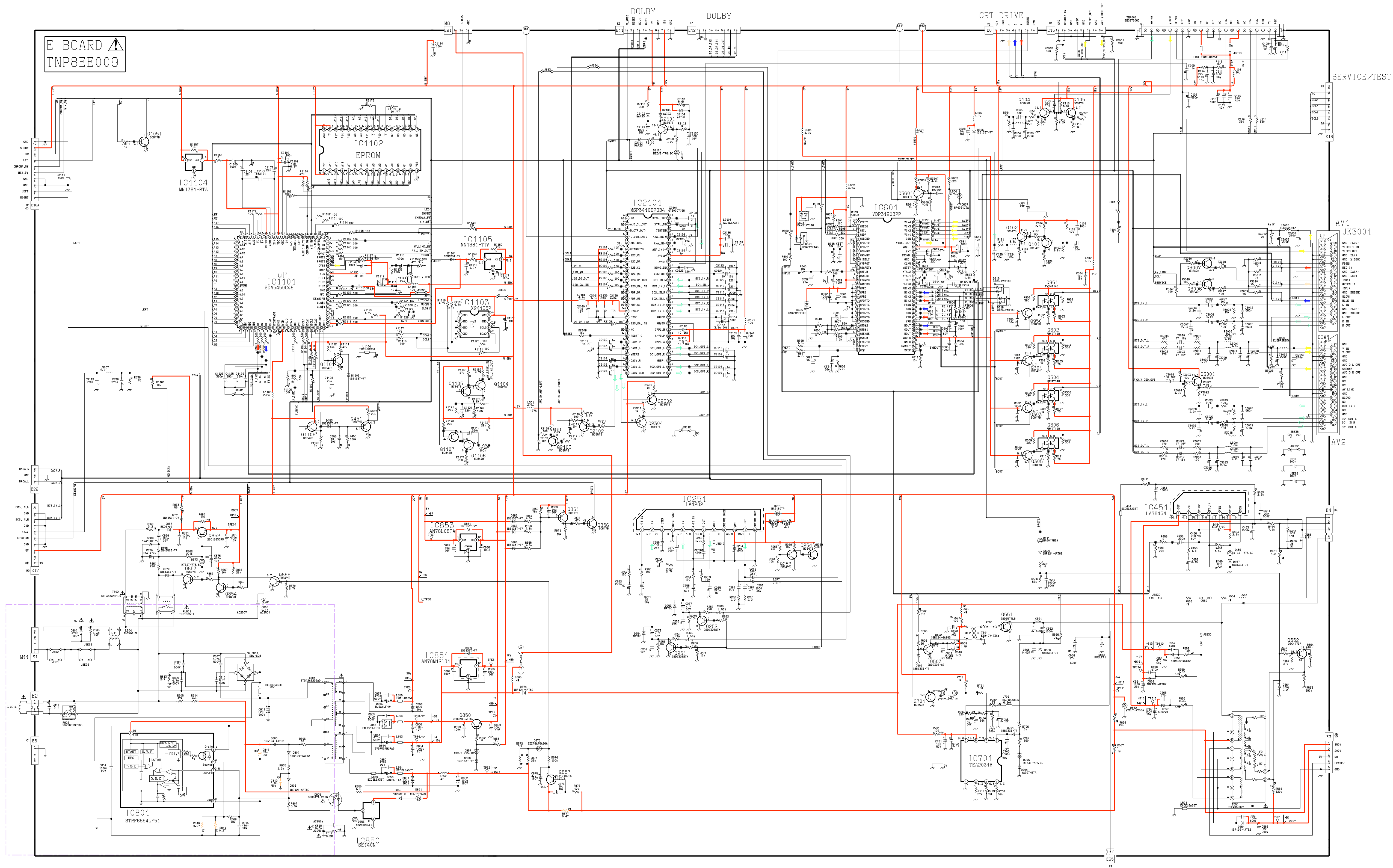
REMARKS

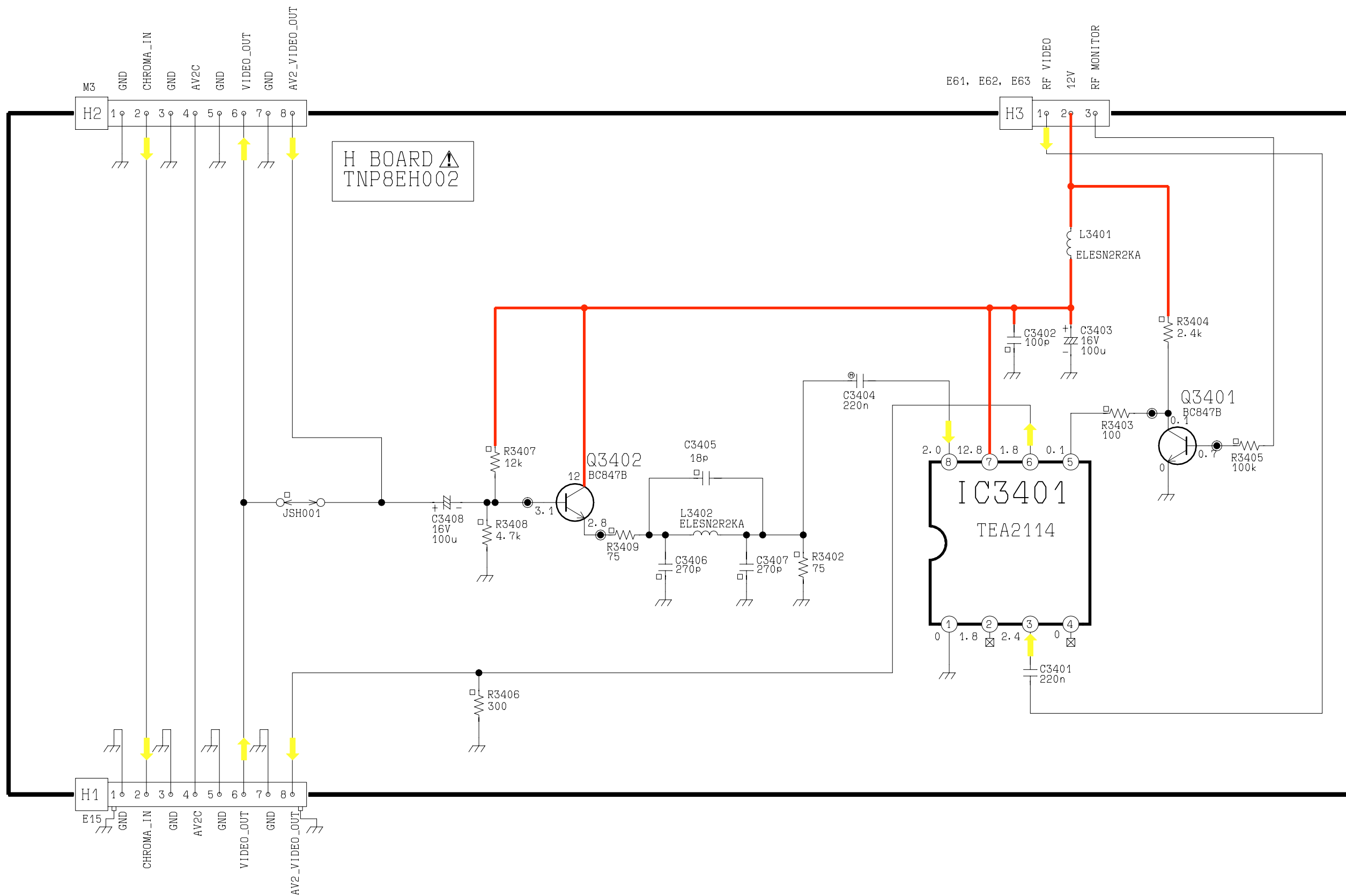
- a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

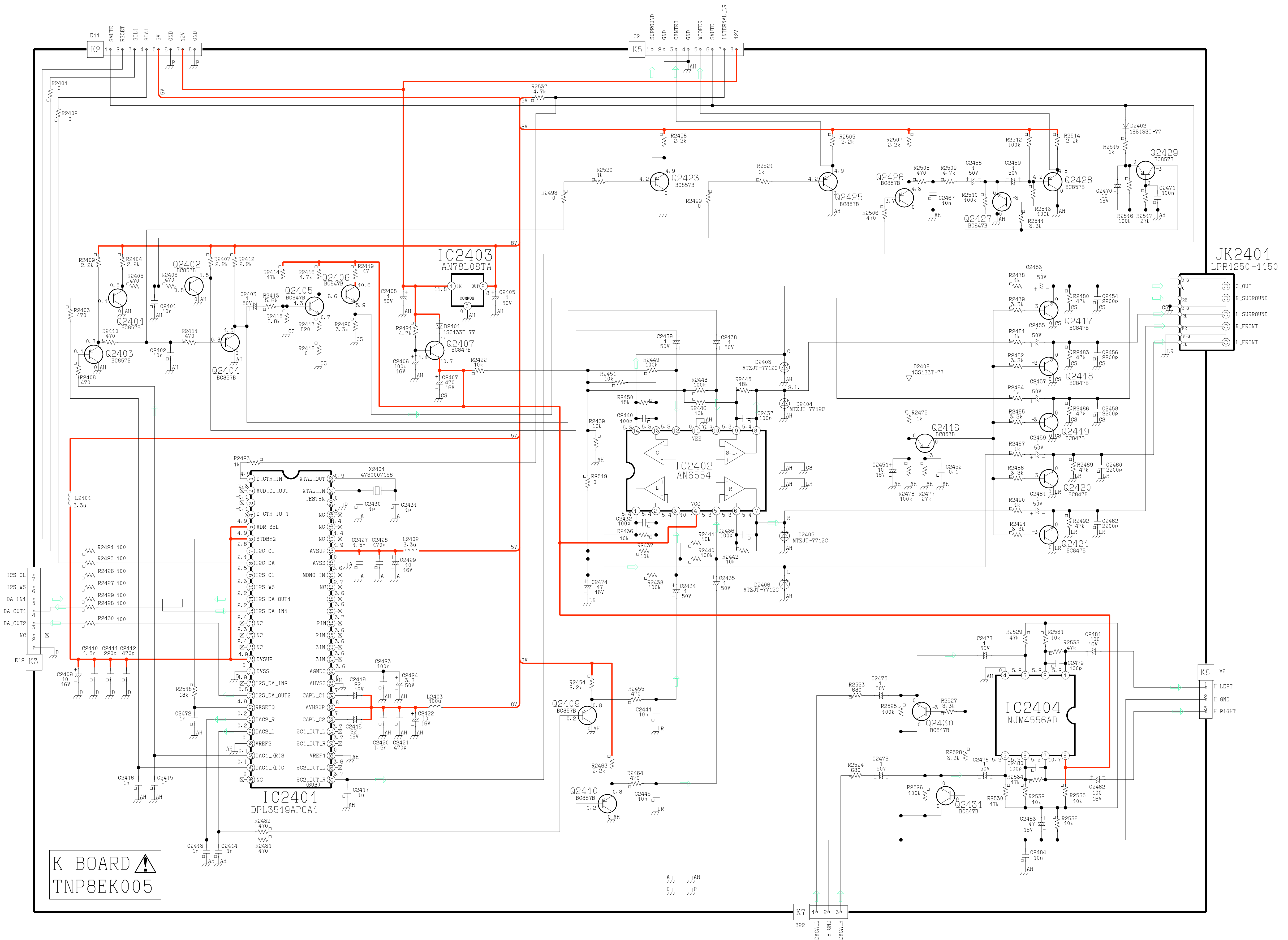
NOTE

1. The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.

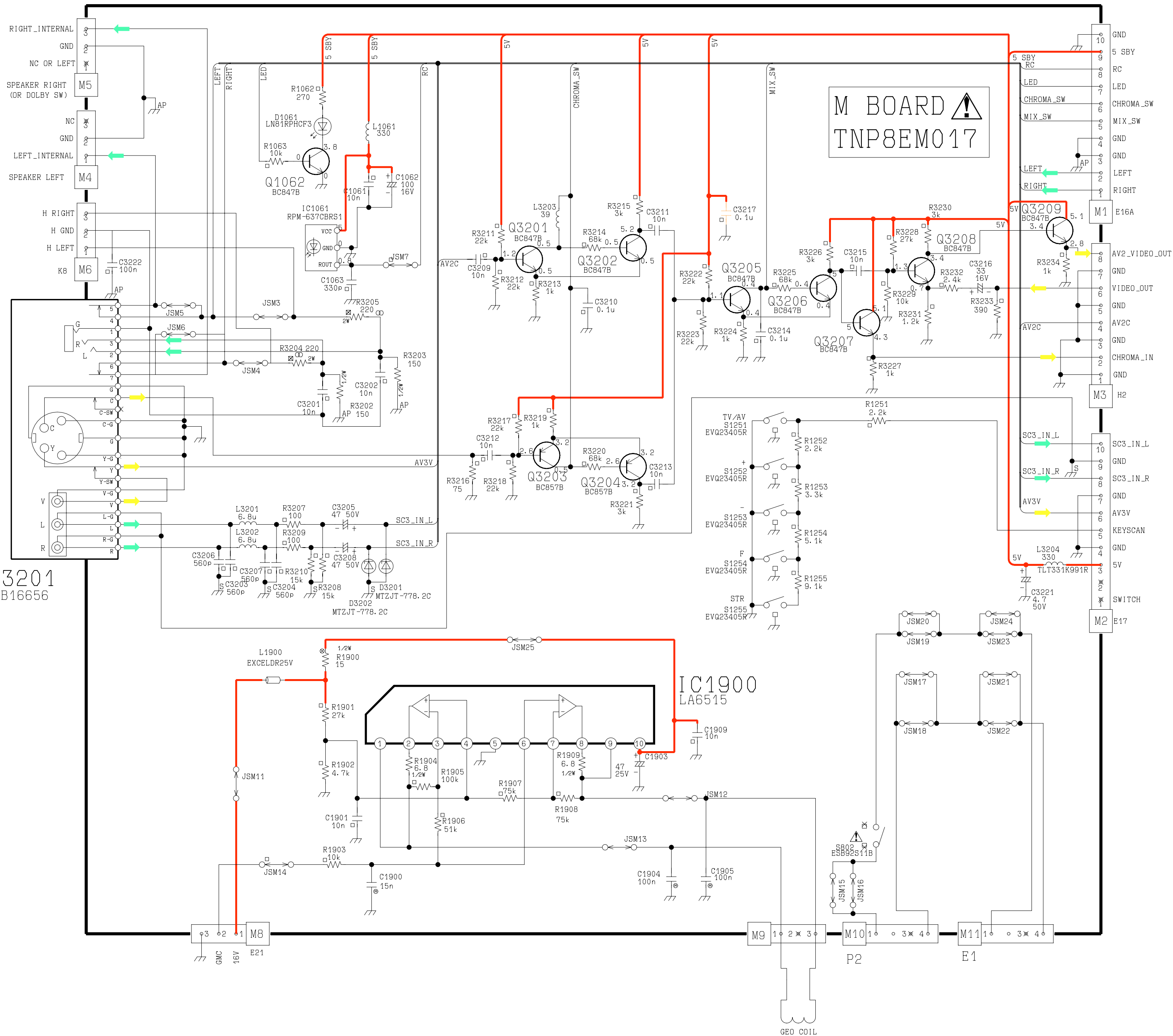


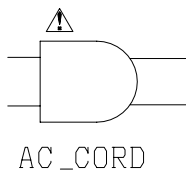




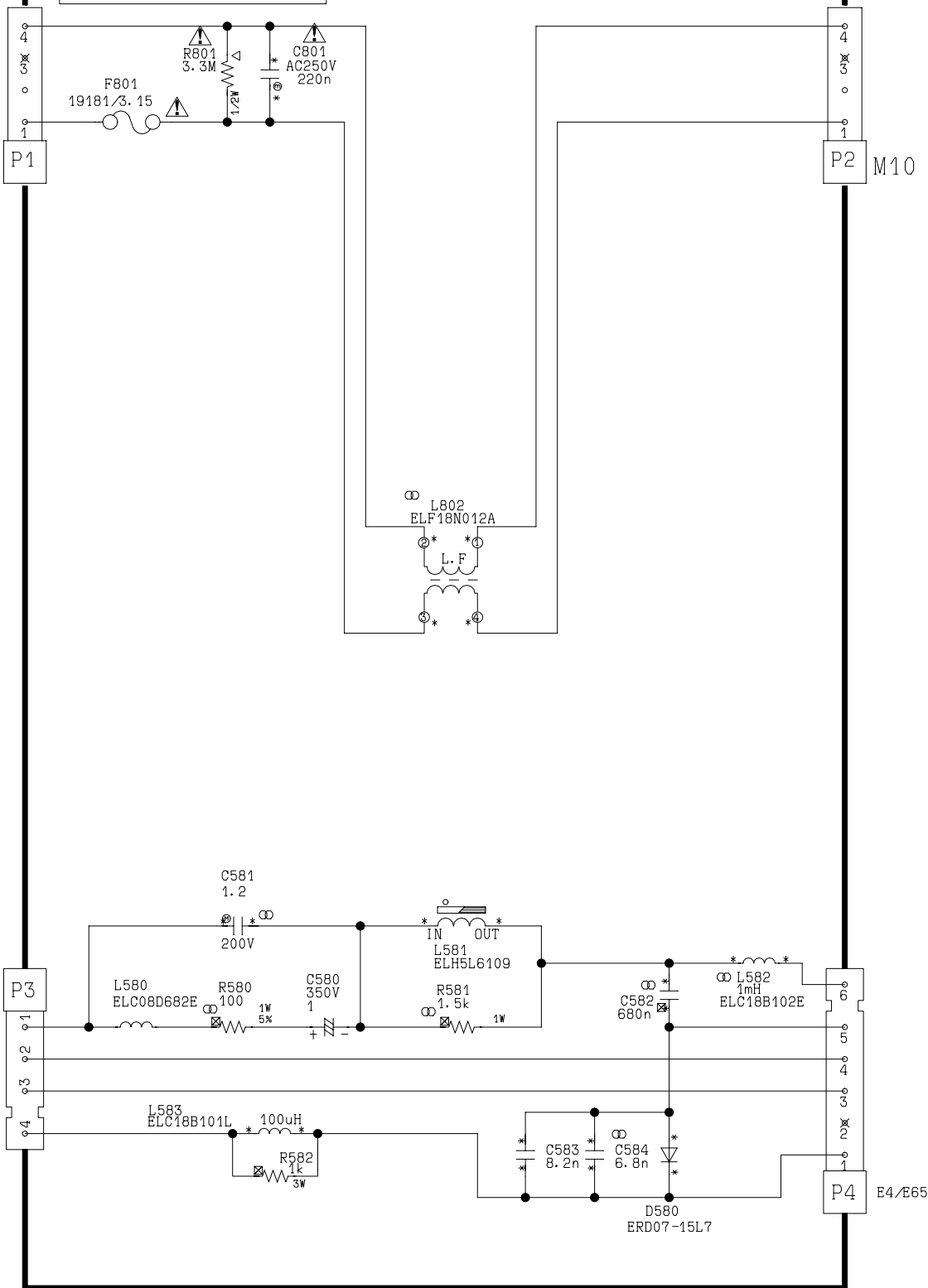


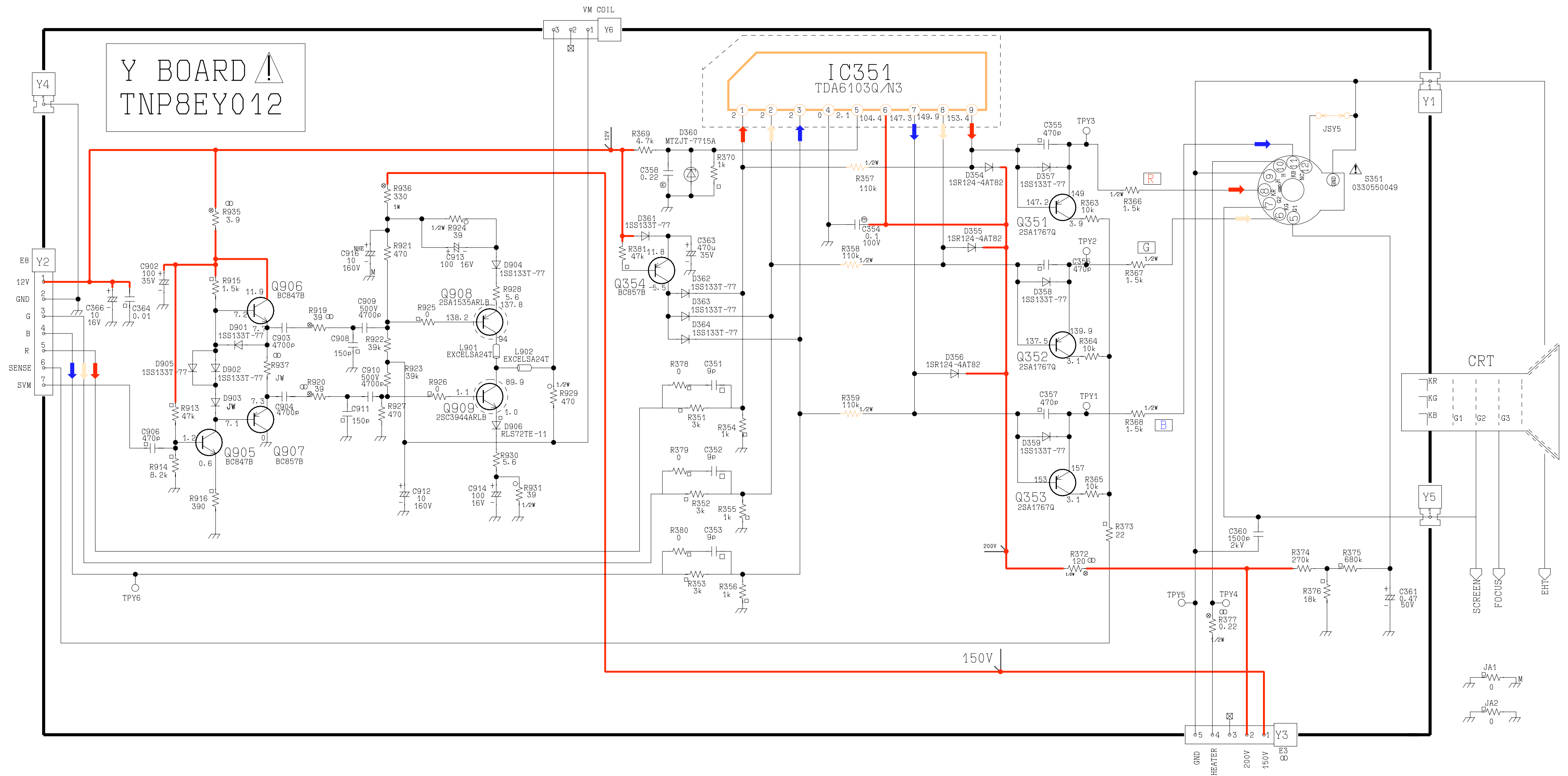
JK3201
TJB16656





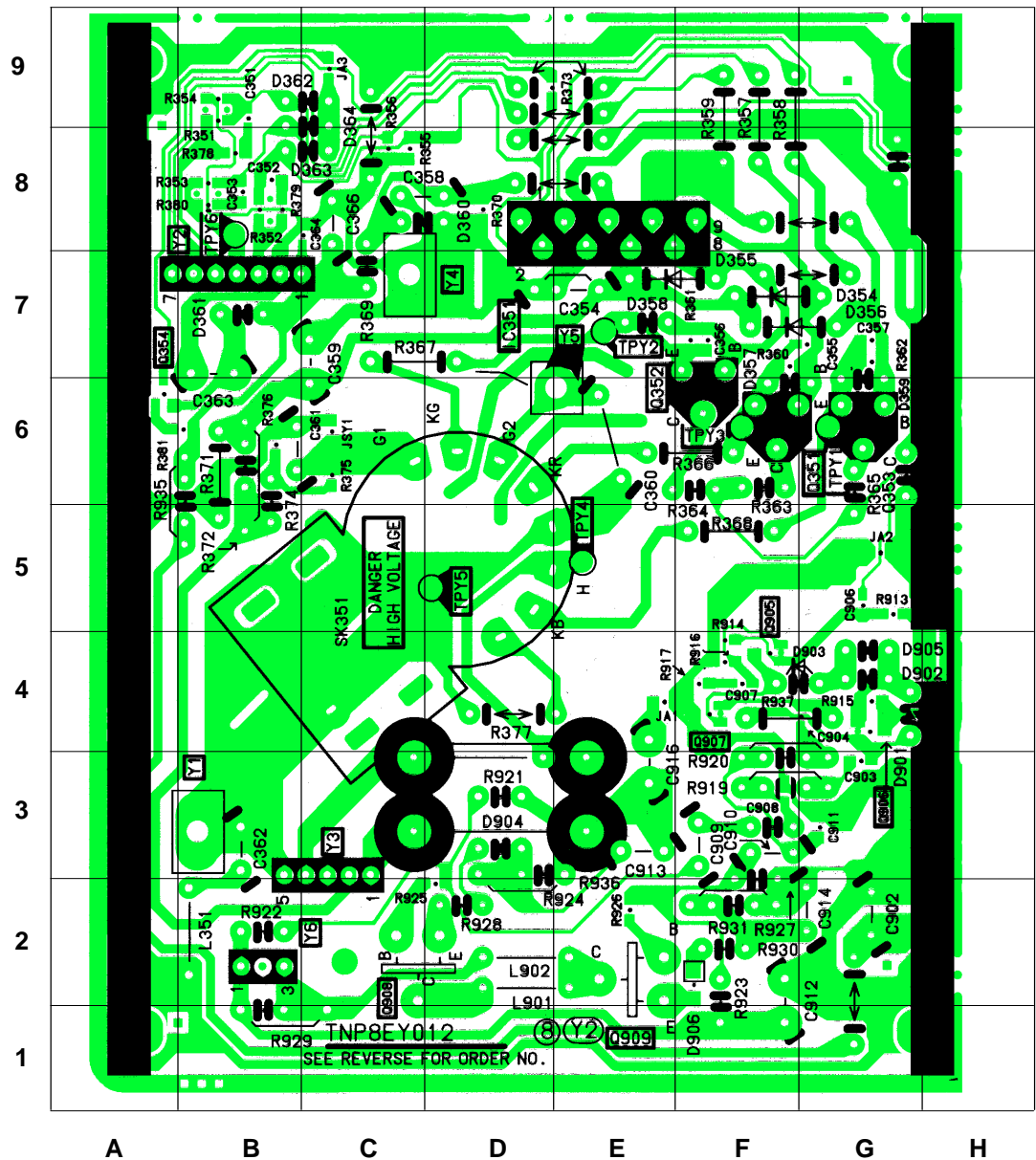
P BOARD
TNP8EP015





Y - BOARD TNP8EY012

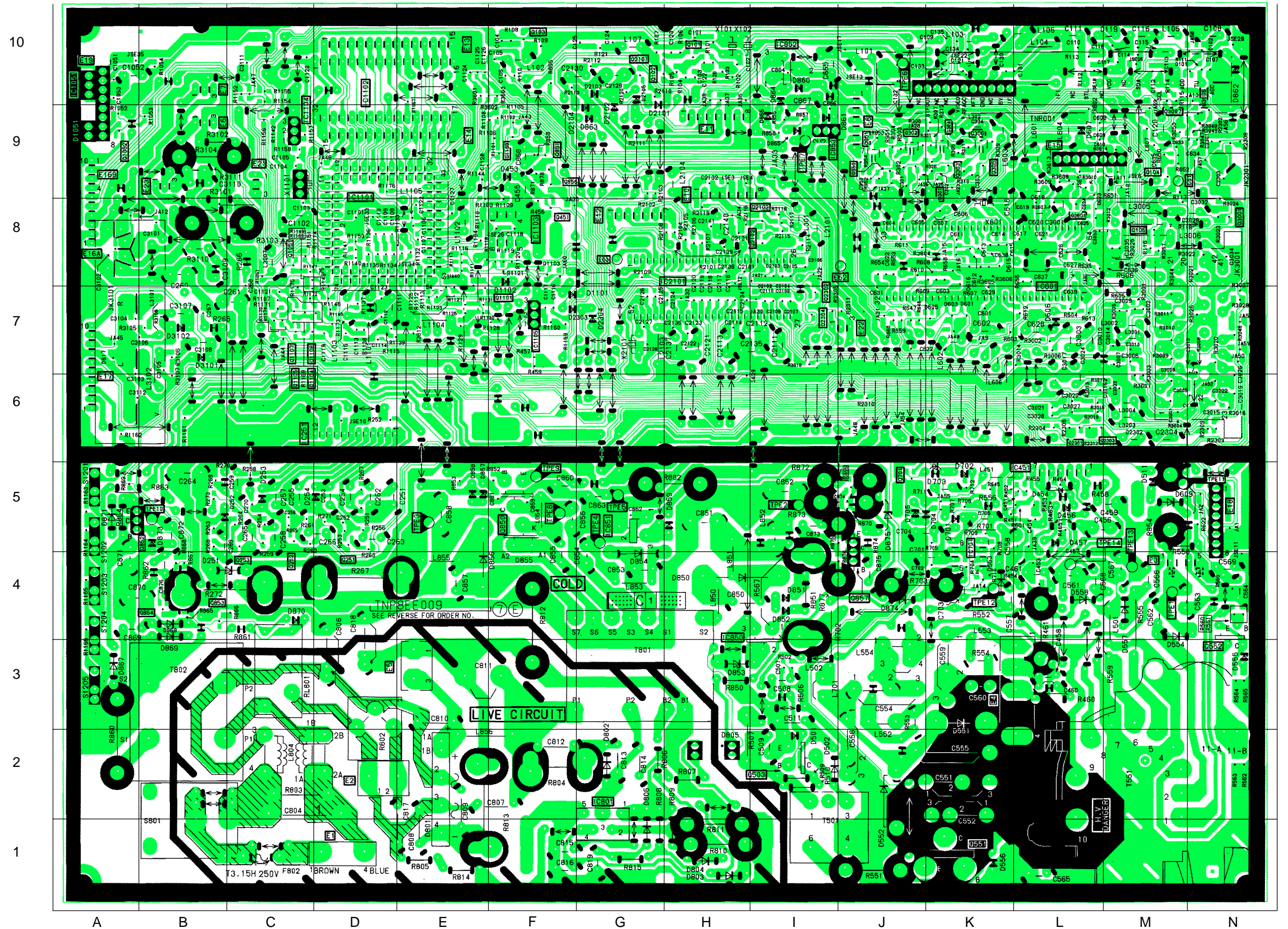
TRANSISTORS	
Q909	E1
Q908	C2
Q907	F4
Q906	G3
Q905	F5
Q354	A7
Q353	G6
Q352	F6
Q351	F6
DIODES	
D906	F1
D905	G4
D904	D3
D902	G4
D901	G3
D364	C9
D363	C8
D362	B9
D361	B7
D360	D8
D359	G6
D358	E7
D357	F7
D356	G7
D355	F7
D354	G7
TEST POINTS	
TPY6	B8
TPY5	D5
TPY4	E5
TPY3	F6
TPY2	E7
TPY1	G6
IC'S	
IC351	E8



CONDUCTOR VIEWS

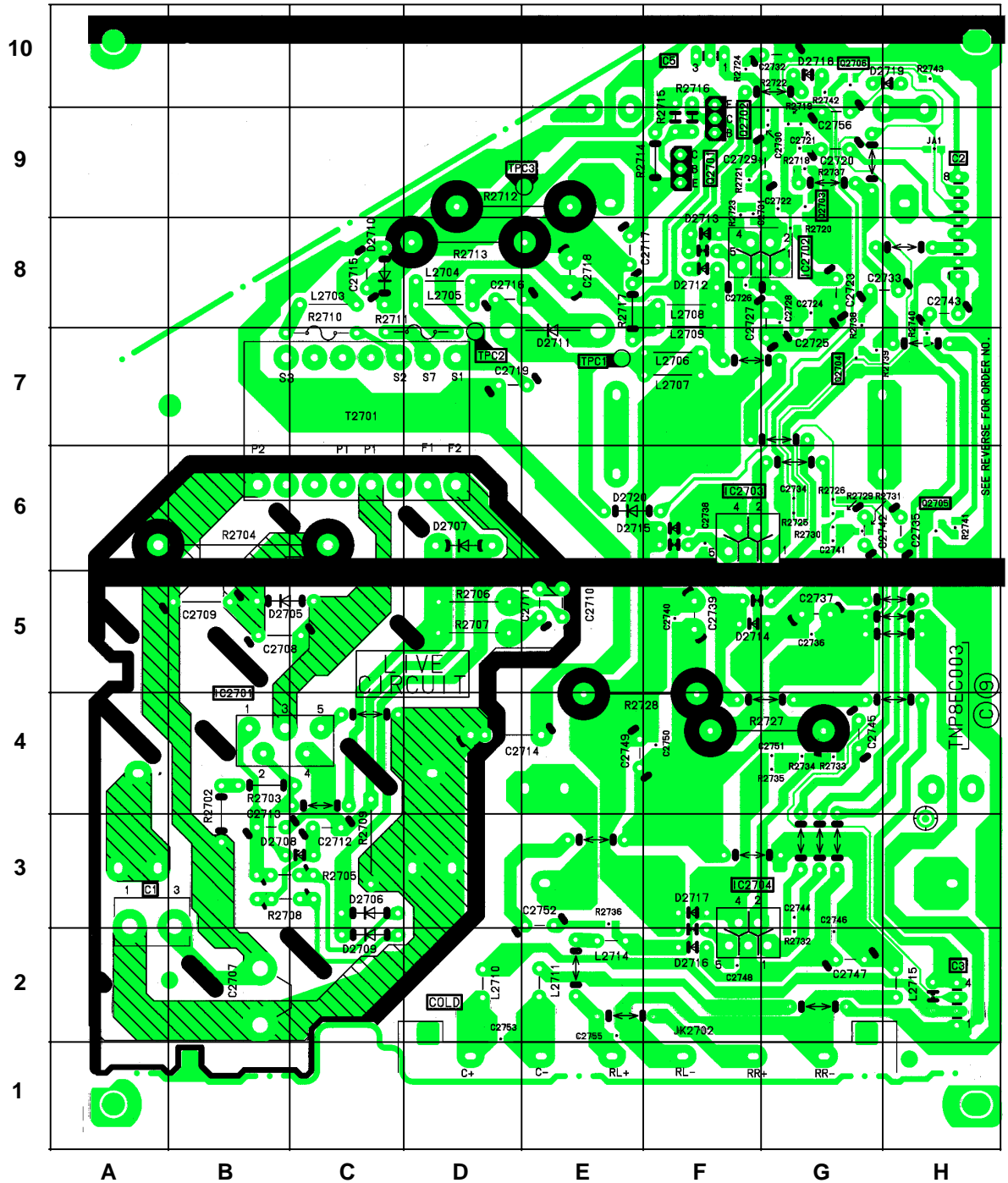
E-BOARD TNP8EE009

TRAN'S	DIODES	D558 L4
Q3601 L8	D3103 B7	D557 M4
Q3007 M9	D3101 B7	D556 K1
Q3001 N8	D3102 B7	D555 N3
Q3006 N10	D2161 G9	D554 M4
Q2304 I7	D2105 G10	D553 K4
Q2303 M6	D2104 F9	D552 J2
Q2301 I7	D2103 G10	D551 K3
Q2103 I8	D2102 G9	D511 M5
Q2102 H8	D1103 F8	D502 I2
Q2101 G10	D1102 F7	D501 I2
Q1108 F9	D1101 G7	D457 L5
Q1107 C7	D1051 A9	D456 L5
Q1106 C7	D875 J5	D454 L5
Q1105 C7	D874 J4	D453 F9
Q1104 C7	D873 B5	D254 C5
Q1101 F7	D871 A5	D253 C5
Q1052 A9	D870 871	D252 B5
Q1051 C8	D869 B4	D251 B4
Q951 J9	D868 B4	IC'S
Q950 J9	D867 A3	IC2101 H8
Q857 J4	D866 I9	IC1105 F7
Q856 F9	D865 I9	IC1104 C9
Q855 J5	D864 I10	IC1103 F8
Q854 B4	D863 G9	IC1102 D10
Q853 B4	D862 N10	IC1101 D8
Q852 B5	D861 J9	IC1051 A10
Q850 F5	D860 I10	IC852 I10
Q701 J5	D859 H5	IC851 G5
Q552 N3	D858 E5	IC850 H4
Q551 K1	D857 E5	IC801 G2
Q503 I2	D855 F4	IC701 K5
Q451 F8	D854 G4	IC601 L7
Q394 K9	D853 H3	IC451 L5
Q305 K9	D852 I4	IC251 D6
Q303 K9	D851 I4	TP'S
Q302 J9	D850 H4	TPE14 M5
Q301 K9	D806 G2	TPE13 M4
Q253 C4	D805 H2	TPE12 K4
Q252 C4	D804 H1	TPE11 N5
Q252 C4	D803 H1	TPE10 B5
Q251 D4	D802 G2	TPE9 E5
Q105 M8	D801 E1	TPE8 F5
Q104 M9	D705 J5	TPE7 I9
Q103 F10	D704 K5	TPE6 J10
Q102 G10	D703 K5	TPE5 G5
Q101 H10	D702 K5	TPE4 G5
	D701 K5	TPE3 E5
	D609 M5	TPE2 I5
	D607 L9	TPE1 M4



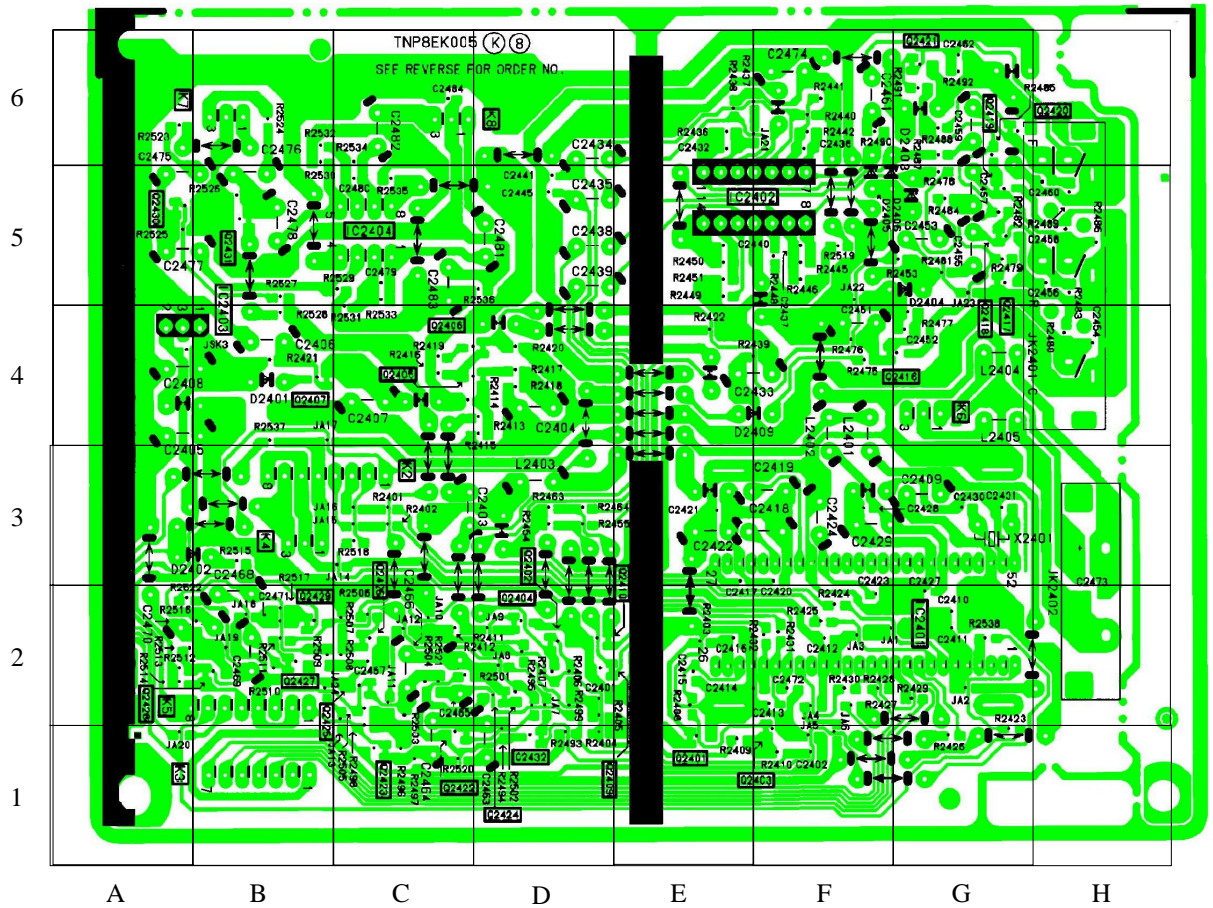
C - BOARD TNP8EC003

TRAN'S	
Q2706	G10
Q2705	H6
Q2704	G7
Q2703	G9
Q2702	F9
Q2701	F9
DIODES	
D2720	E6
D2719	H10
D2718	G10
D2717	F3
D2716	F2
D2715	F6
D2714	F5
D2713	F8
D2712	F8
D2711	E7
D2710	C8
D2709	C2
D2708	C3
D2707	D6
D2706	C3
D2705	B5
IC'S	
IC2704	F3
IC2703	F6
IC2702	G8
IC2701	B4
TP'S	
TPC1	E7
TPC2	D7
TPC3	E9



K - BOARD TNP8EK005

TRAN'S	
D2	Q2432
B5	Q2431
A5	Q2430
B2	Q2429
A2	Q2428
B2	Q2427
C2	Q2426
C2	Q2425
D2	Q2424
C1	Q2423
C1	Q2422
G6	Q2421
G6	Q2420
G5	Q2419
G5	Q2418
G5	Q2417
F4	Q2416
D2	Q2410
D2	Q2409
B4	Q2407
C4	Q2406
C4	Q2405
D2	Q2404
F1	Q2403
D2	Q2402
E1	Q2401
IC'S	
C5	IC2404
A4	IC2403
E5	IC2402
G2	IC2401
DIODES	
E4	D2409
G5	D2408
F5	D2406
F5	D2405
A3	D2402
B4	D2401



M - BOARD TNP8EM017

TRANSISTORS	
Q3201	B10
Q3202	B9
Q3203	B9
Q3204	B9
Q3205	C1
Q3206	D2
Q3207	C2
Q3208	C3
Q3209	C3
Q1900	D10
Q1061	B10
Q1062	A10
DIODES	
D3201	C10
D3202	C10
D3203	B11
D1900	D8
D1061	A11
IC'S	
IC1900	D9
IC1901	D8
IC1061	A10

